

CDX-L410X

SERVICE MANUAL

Ver 1.1 2003. 06

US Model
Canadian Model



- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US Model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
22 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

Model Name Using Similar Mechanism	CDX-L280
CD Drive Mechanism Type	MG-393XC-121//K
Optical Pick-up Name	KSS-721A

SPECIFICATIONS

CD player section

Signal-to-noise ratio 90 dB
Frequency response 10 – 20,000 Hz
Wow and flutter Below measurable limit

Tuner section

FM

Tuning range 87.5 – 107.9 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz
Usable sensitivity 11 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo),
68 dB (mono)
Harmonic distortion at 1 kHz
0.7% (stereo),
0.5% (mono)
Separation 33 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM

Tuning range 530 – 1,710 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity AM: 30 μ V

Power amplifier section

Outputs Speaker outputs
(sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 45 W \times 4 (at 4 ohms)

General

Outputs Audio outputs (rear)
Power antenna relay control terminal
Power amplifier control terminal
Inputs Antenna input terminal
Tone controls Low: ± 10 dB at 60 Hz (XPL0D)
Mid: ± 10 dB at 1 kHz (XPL0D)
High: ± 10 dB at 10 kHz (XPL0D)
Power requirements 12 V DC car battery
(negative ground)
Dimensions Approx. 178 \times 50 \times 176 mm
(7 1/8 \times 2 \times 7 in.) (w/h/d)
Mounting dimensions Approx. 182 \times 53 \times 161 mm
(7 1/4 \times 2 1/8 \times 6 3/8 in.) (w/h/d)
Mass Approx. 1.2 kg
(2 lb. 10 oz.)
Supplied accessories Parts for installation and connections
Front panel case (1)

Note

This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

FM/AM COMPACT DISC PLAYER

9-874-230-02

2003F04-1

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Sony Corporation

e Vehicle Company

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SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

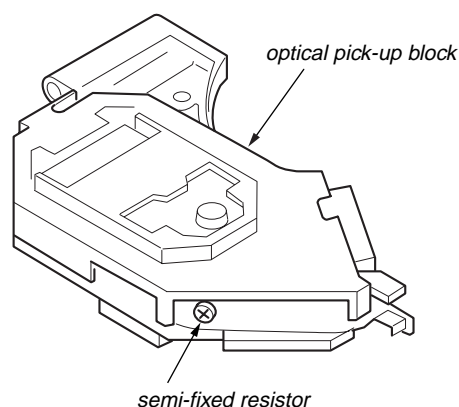
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)

CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

Notes on CD-R/CD-RW discs

- You can play CD-Rs (recordable CDs)/CD-RWs (rewritable CDs) designed for audio use on this unit.

Look for these marks to distinguish CD-Rs/CD-RWs for audio use.



These marks denote that a disc is not for audio use.



- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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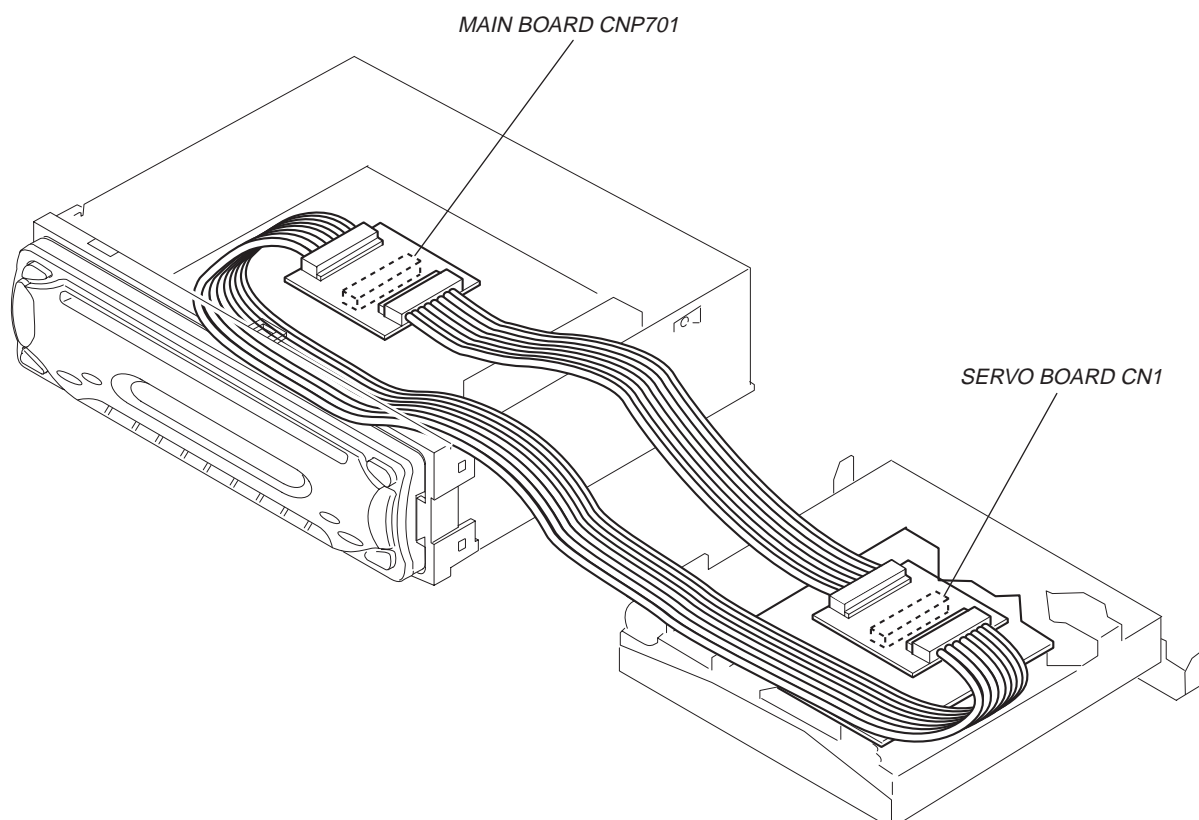
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5. ELECTRICAL PARTS LIST 33**EXTENSION CABLE AND SERVICE POSITION**

When repairing or servicing this set, connect the jig (extension cable) as shown below.

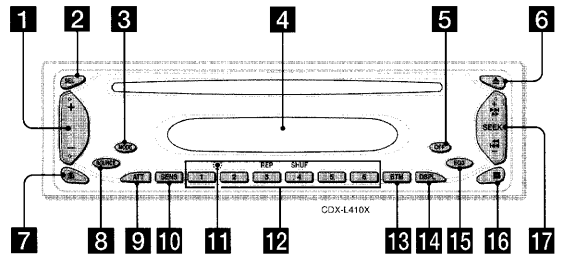
- Connect the MAIN board (CNP701) and the SERVO board (CN1) with the extension cable (Part No. J-2502-062-1).



This section is extracted from instruction manual.

Location of controls

Refer to the pages listed for details.



- 1** Volume +/- button

2 SEL (select) button
Selecting items.

3 MODE button
Changing the operation.

4 Display window

5 OFF (Stop/Power off) button* 7, 9

6 (eject) button 9

7 (front panel release) button 7

8 SOURCE (Power on/Radio/CD) button
Selecting the source.

9 ATT (attenuate) button 12

10 SENS button 11

11 RESET button (located on the front side of the unit, behind the front panel) 7

12 Number buttons
Radio:
Storing the desired station on each number button.
CD:
③: REP 10
④: SHUF 10
- 13** BTM (Best Tuning Memory) button 10

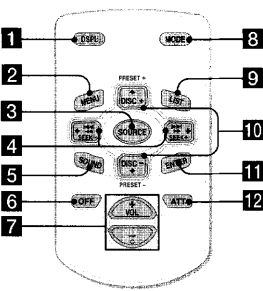
14 DSPL (display mode change) button 8, 9

15 EQ3 button 12

16 Receptor for the card remote commander

17 SEEK +/- button
Radio:
Tuning in stations automatically/finding a station manually.
CD:
Skipping tracks/fast-forwarding, reversing a track.
- * Warning when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press and hold OFF on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

Card remote commander RM-X114 (optional)



The corresponding buttons of the card remote commander control the same functions as those on this unit.

- 1** DSPL button

2 MENU button*

3 SOURCE button

4 SEEK (+/-) buttons

5 SOUND button

6 OFF button

7 VOL (+/-) buttons

8 MODE button

9 LIST button*

10 DISC*/PRESET (+/-) button

11 ENTER button*

12 ATT button
- * Not available for this unit

Note
If the display disappears by pressing OFF, it cannot be operated with the card remote commander unless SOURCE on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 13).

Precautions

- If your car has been parked in direct sunlight, allow the unit to cool off before operating it.
- Power antenna will extend automatically while the unit is operating.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

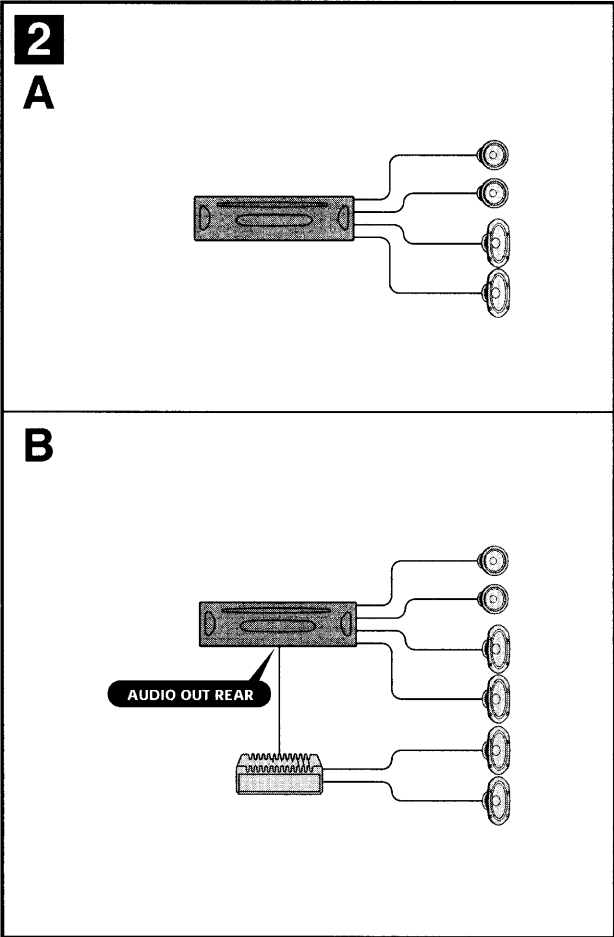
Moisture condensation

On a rainy day or in a very damp area, moisture condensation may occur inside the lenses and display of the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

To maintain high sound quality

Be careful not to splash juice or other soft drinks onto the unit or discs.

Connections



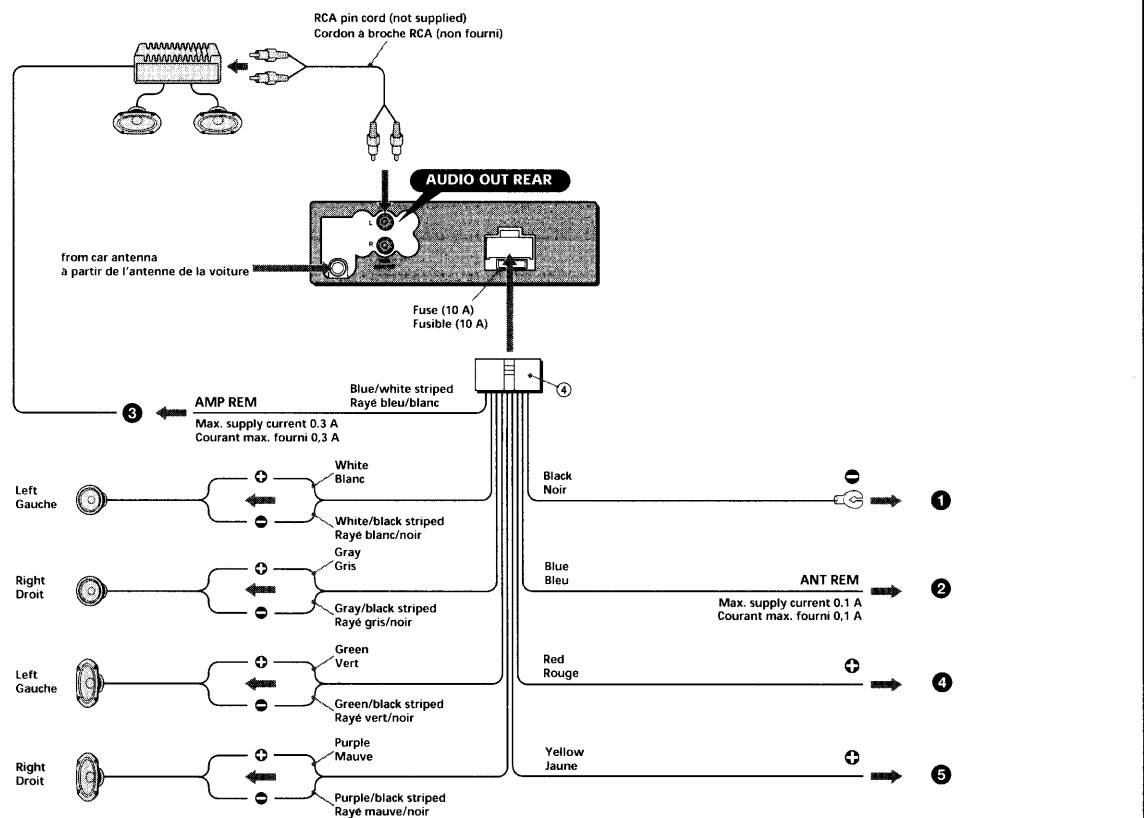
Connection example (2)

- Notes (2-B)**
- Be sure to connect the ground cord before connecting the amplifier.
 - If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Exemple de raccordement (2)

- Remarques (2-B)**
- Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.
 - Si vous raccordez un amplificateur de puissance en option et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.

3



Connection diagram (3)

- 1 To a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input leads.
- 2 To the power antenna control lead or power supply lead of antenna booster amplifier
Notes
 - It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- 3 To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- 4 To the +12 V power terminal which is energized in the accessory position of the ignition key switch
Notes
 - If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
 - Be sure to connect the black ground lead to a metal surface of the car first.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- 5 To the +12 V power terminal which is energized at all times
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.
- When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each other.

Schéma de raccordement (3)

- 1 A un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'alimentation jaune et rouge.
- 2 Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarques
 - Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".
- 3 Au niveau du AMP REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- 4 A la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
 - S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le fil de masse noir à un point métallique de la voiture.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".
- 5 A la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir à un point métallique de la voiture.

Remarques sur les fils de commande et d'alimentation

- Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez le radio sous tension.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour la conservation de la mémoire

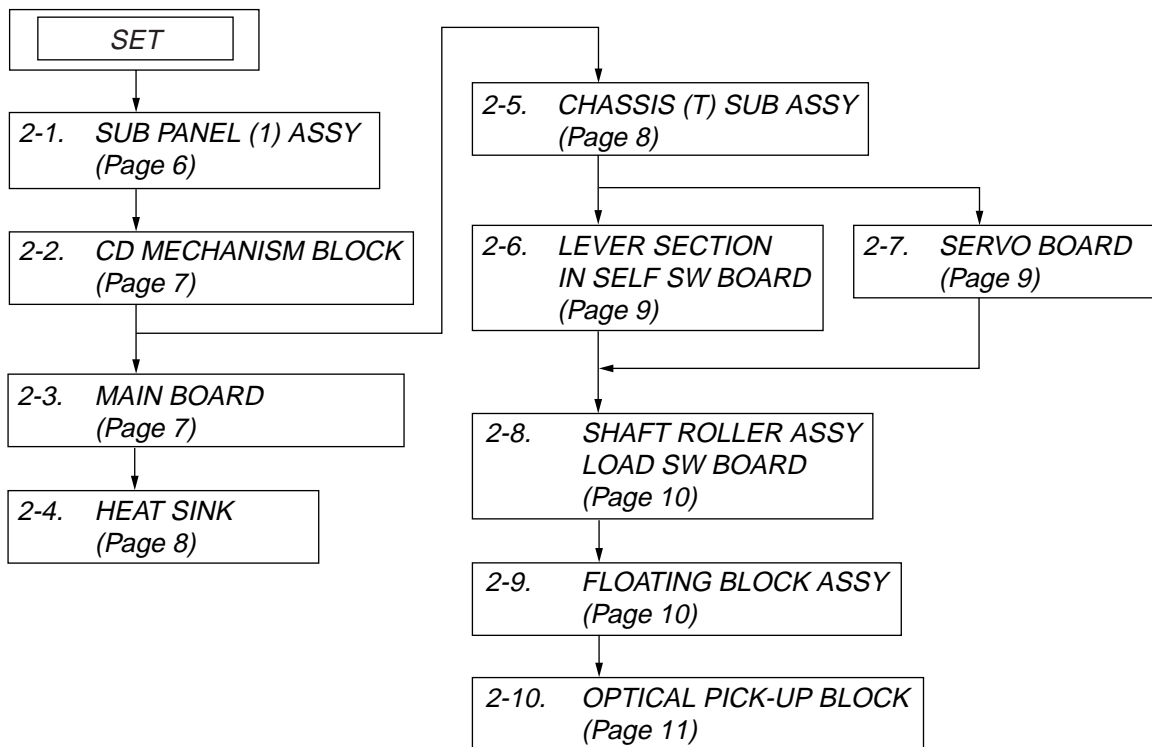
Lorsque le fil d'entrée d'alimentation jaune est raccorder, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de masse de cet appareil à la borne négative (-) de l'enceinte.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les câbles des haut-parleurs de l'appareil.

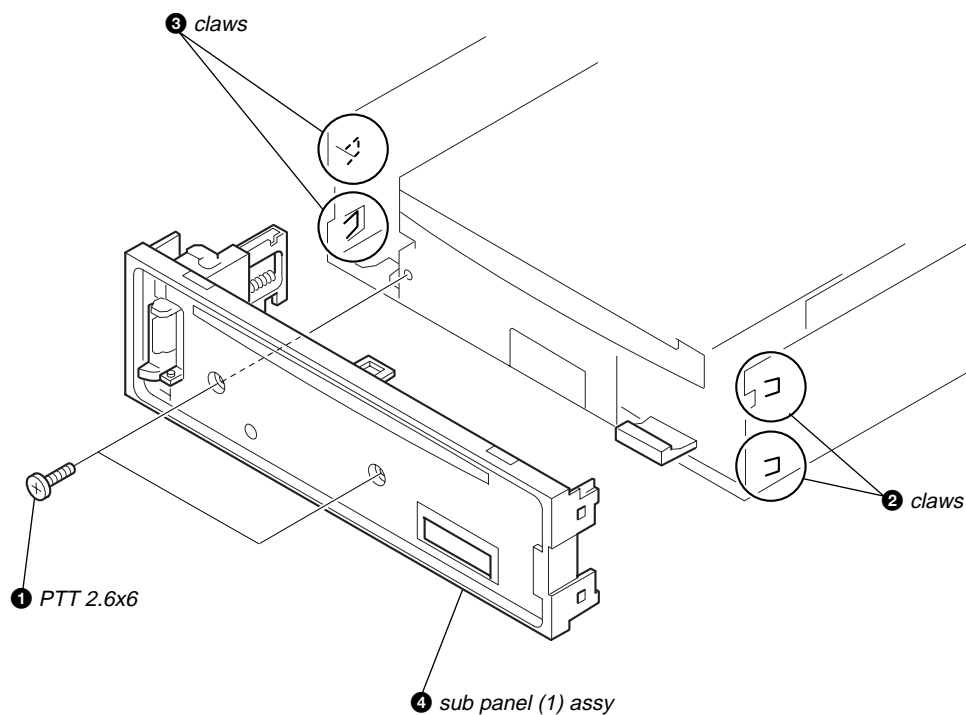
SECTION 2 DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

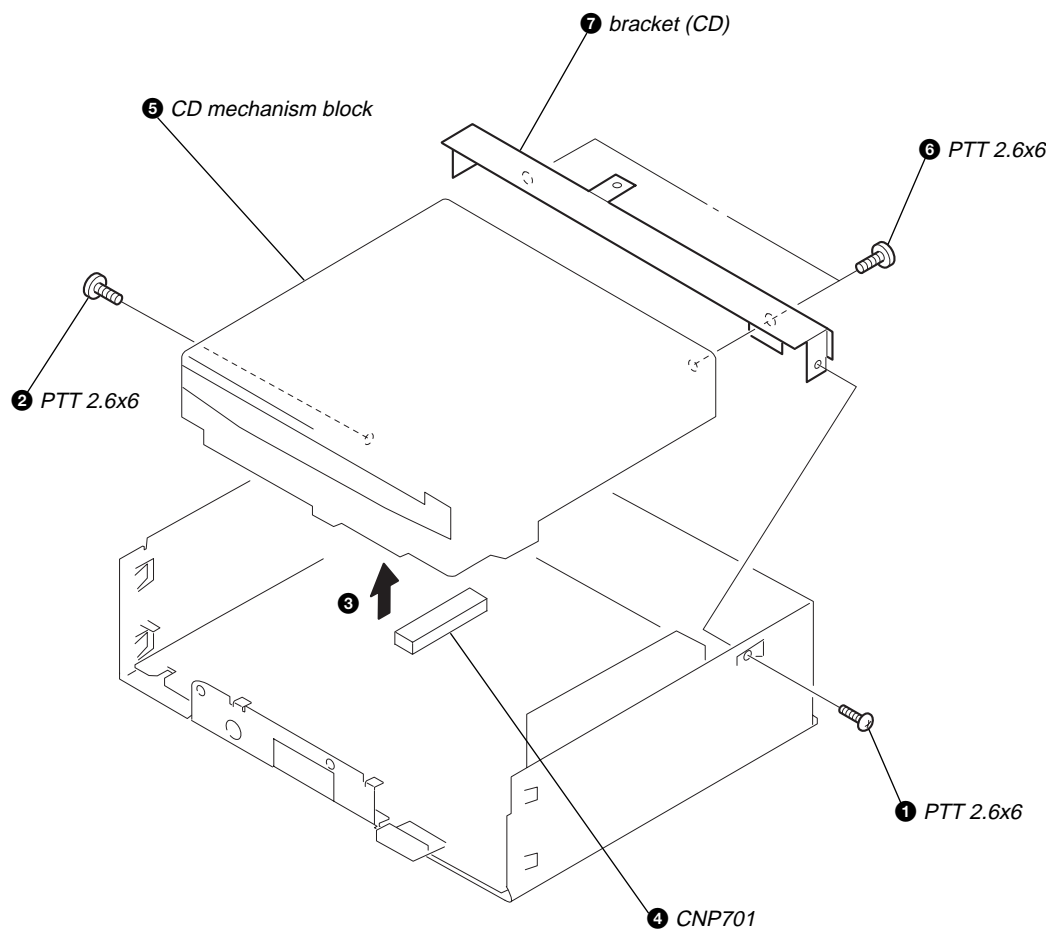


Note : Follow the disassembly procedure in the numerical order given.

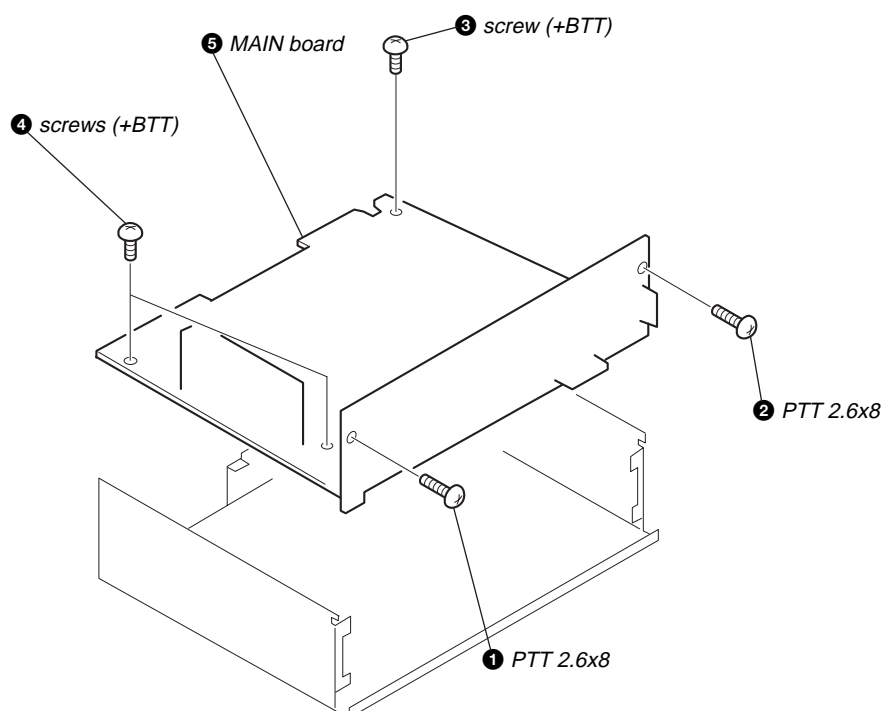
2-1. SUB PANEL (1) ASSY



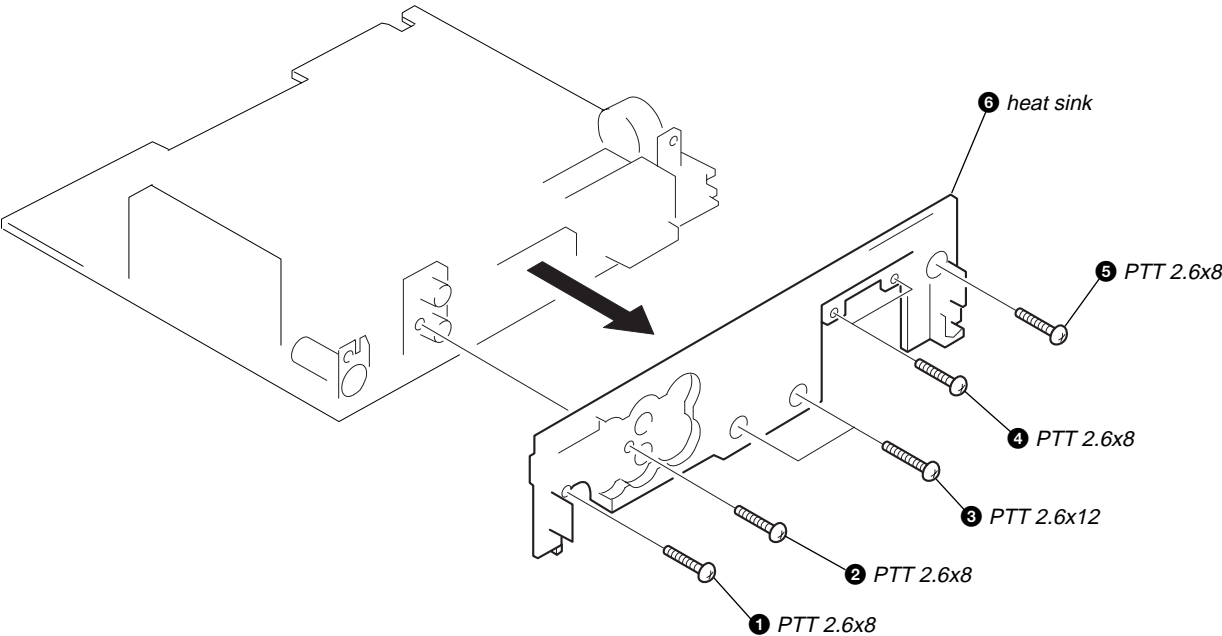
2-2. CD MECHANISM BLOCK



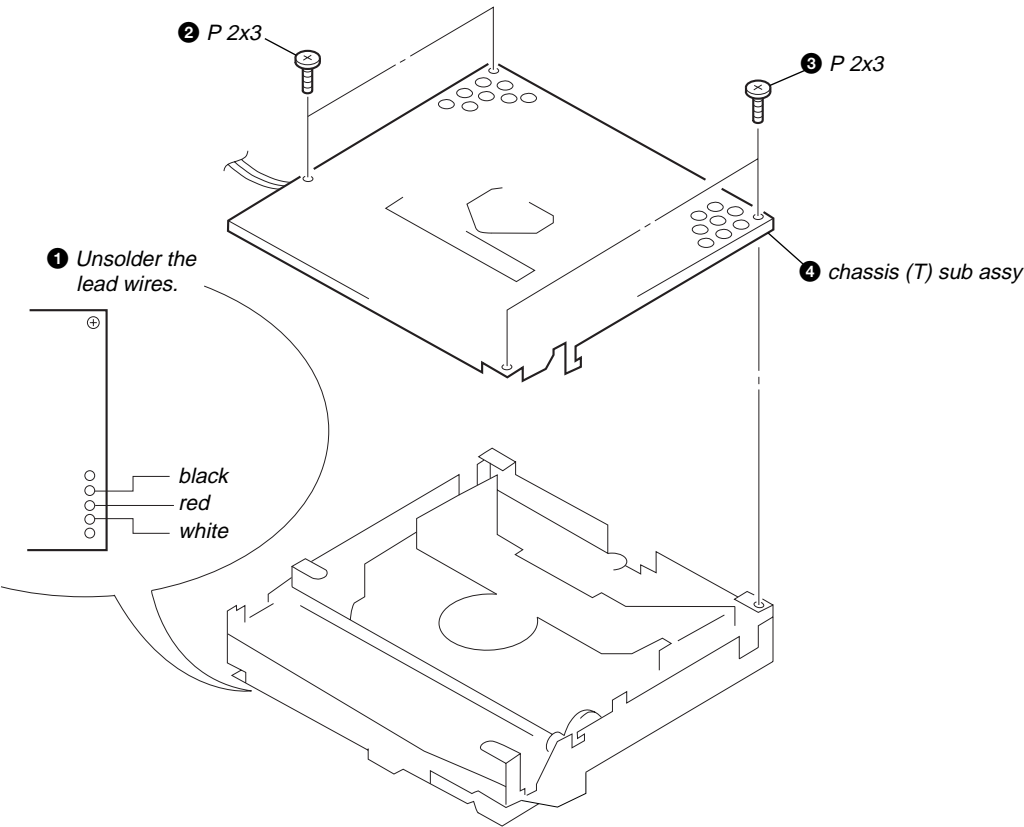
2-3. MAIN BOARD



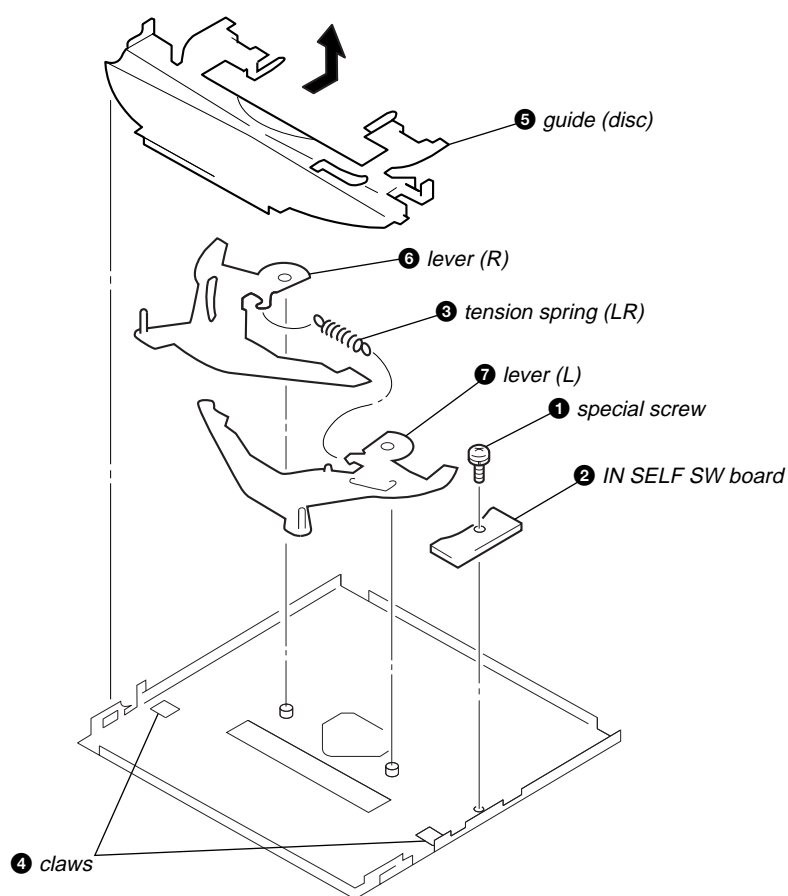
2-4. HEAT SINK



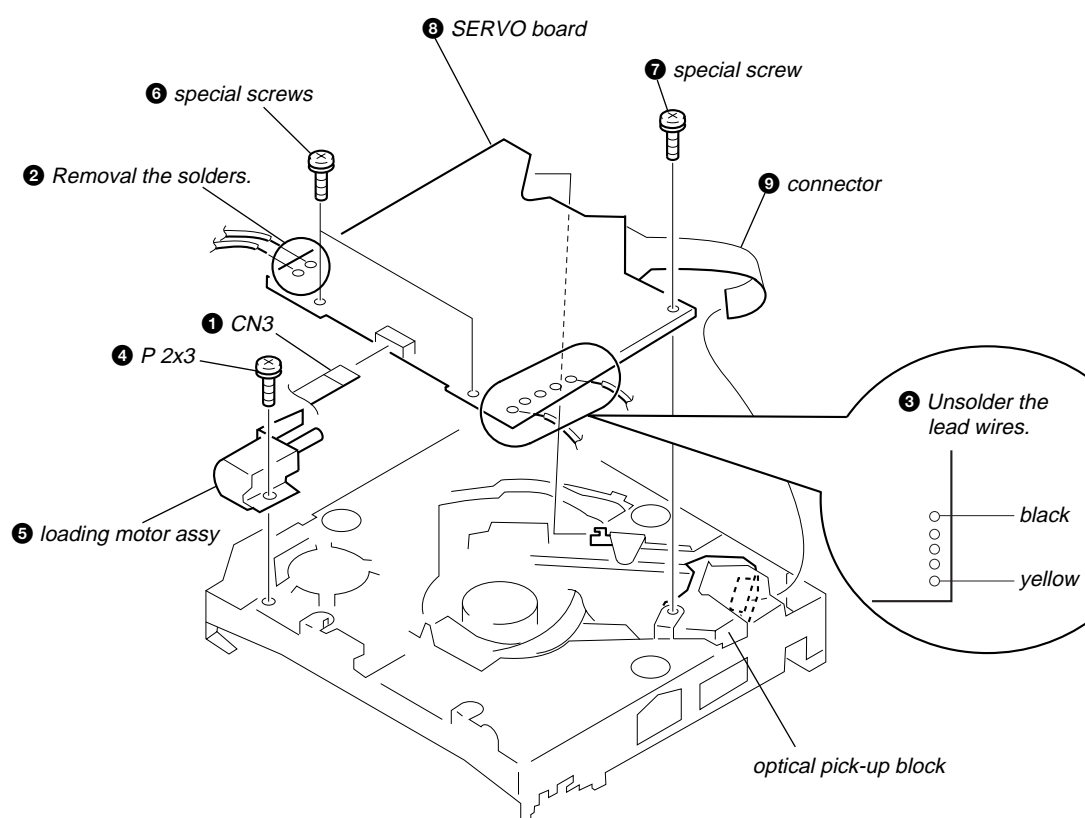
2-5. CHASSIS (T) SUB ASSY



2-6. LEVER SECTION, IN SELF SW BOARD

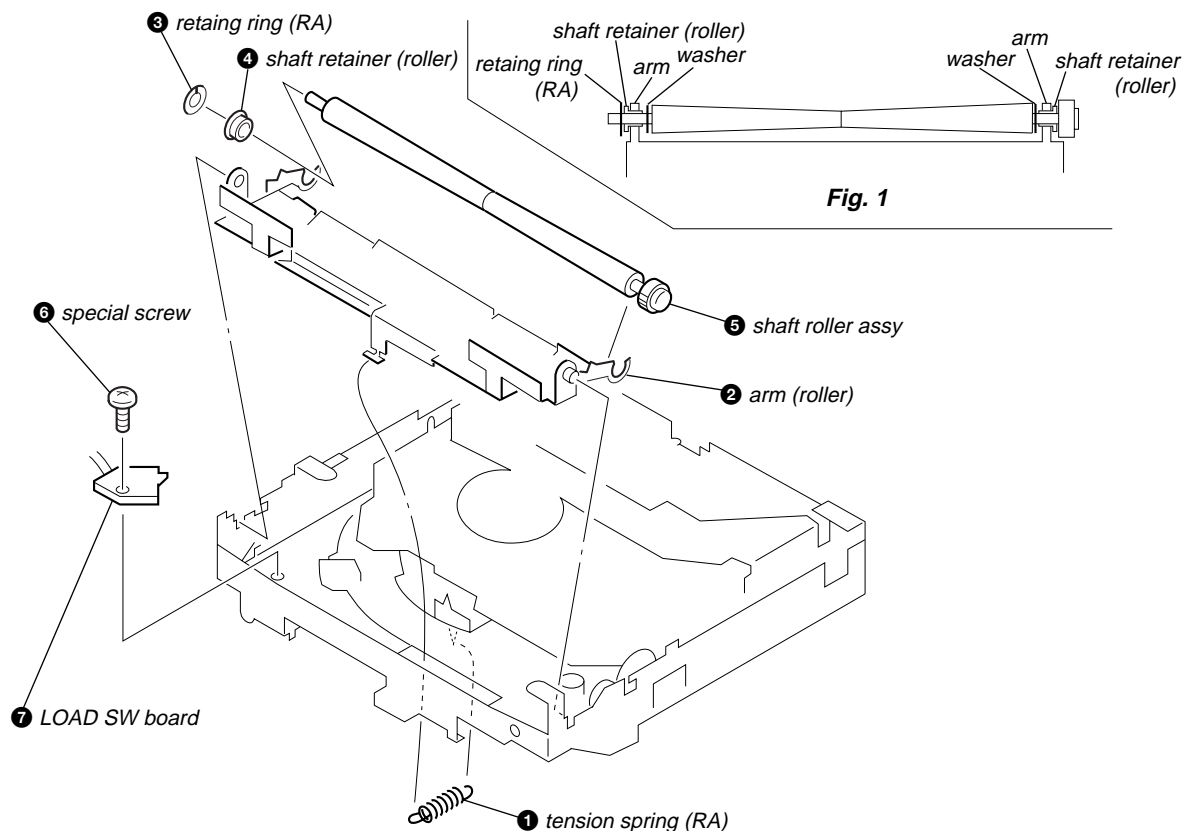


2-7. SERVO BOARD

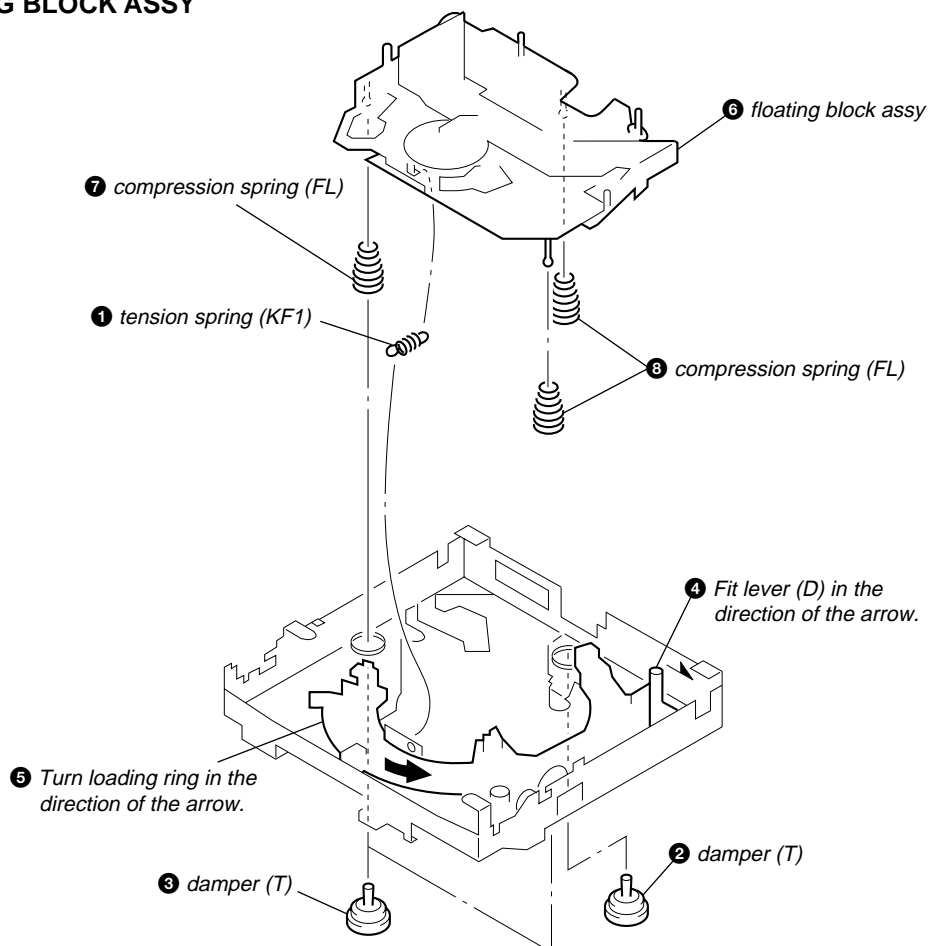


2-8. SHAFT ROLLER ASSY, LOAD SW BOARD

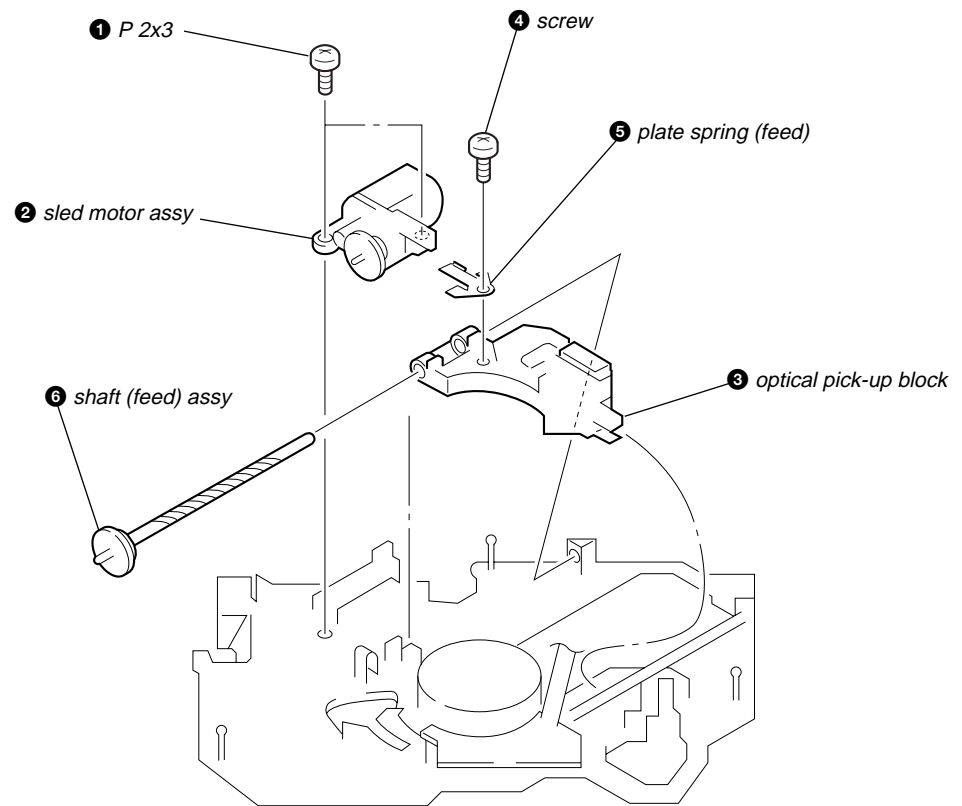
- When installing, take note of the positions arm (roller) and washers. (Fig. 1)



2-9. FLOATING BLOCK ASSY



2-10. OPTICAL PICK-UP BLOCK



SECTION 3 DIAGRAMS

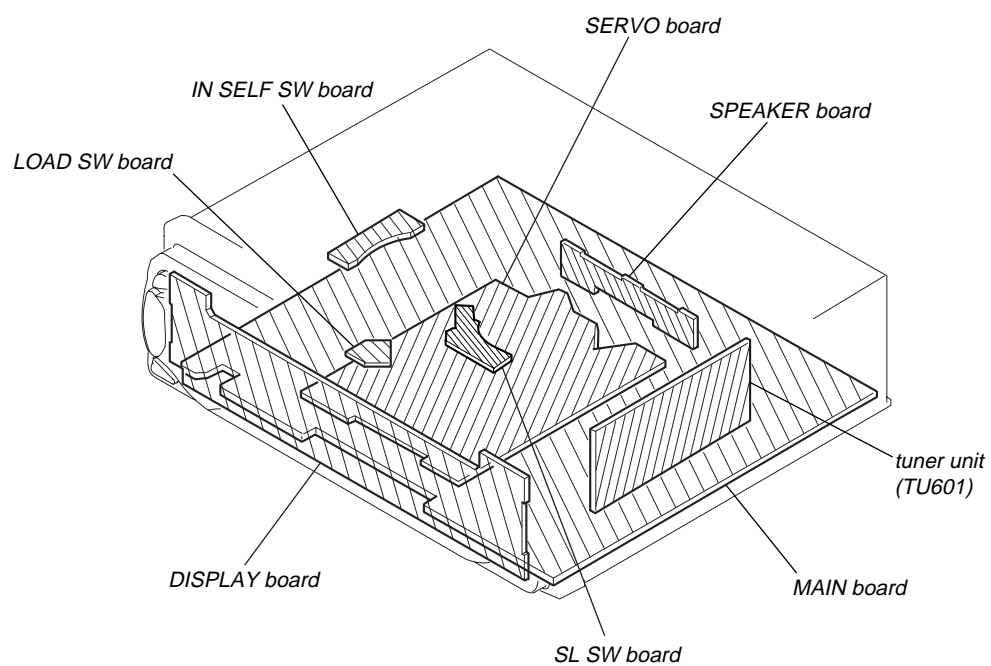
3-1. IC PIN DESCRIPTION

• IC801 μ PD780076YGK-R24 (SYSTEM CONTROL) (MAIN Board)

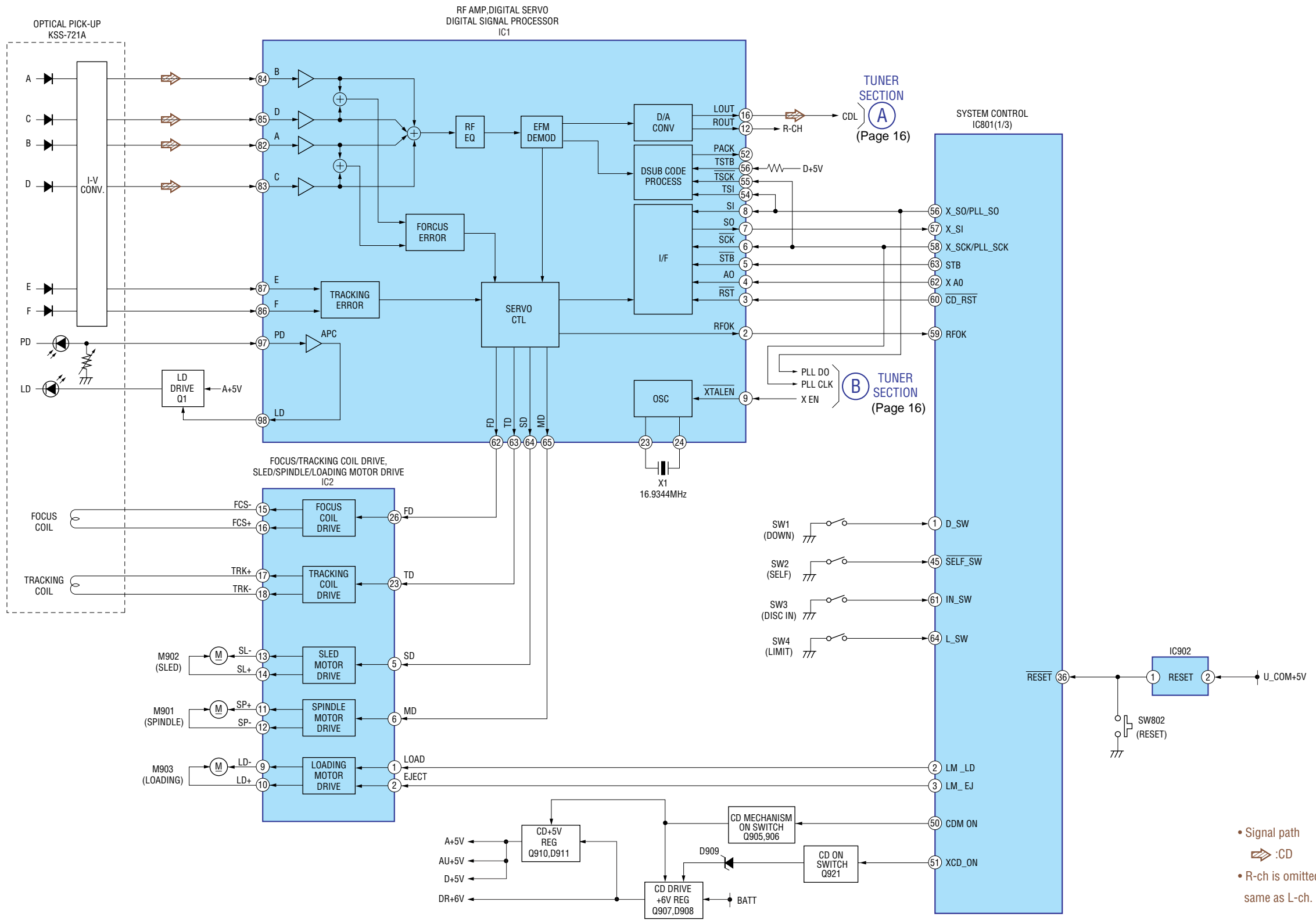
Pin No.	Pin Name	I/O	Pin Description
1	D SW	I	Down switch detection signal input “L”: Down switch on
2	LM LD	O	Loading motor drive control signal output (Loading direction)
3	LM EJ	O	Loading motor drive control signal output (Eject direction)
4	ATT	O	Mute control signal output of audio signal line “H”: mute on
5	$\overline{A ATT}$	O	Mute control signal output to power amp IC (IC101) “L”: amp mute on
6	PLL DI	I	Serial data signal input to PLL IC (IC601)
7	$\overline{VOL ATT}$	O	Mute control signal output to Electric volume IC (IC401)
8	DOOR SW/IND	I	Door switch signal input Case of flipdown, sense to open condition of door “H”: open
9	VSS0	—	Ground pin
10	VDD0	—	Power supply pin
11	PLL CE	O	Chip enable signal output to PLL IC (IC601)
12	BEEP	O	Beep signal output of key beep, caution alarm to power amp IC (IC101)
13	SDAO	O	IIC data line signal output (control to electric volume IC (IC401))
14	SCLO	O	IIC clock line signal output (control to electric volume IC (IC401))
15	LCD CE	O	Chip enable control signal output to LCD driver IC (IC901)
16	LCD DO	O	Serial data signal output to LCD driver IC (IC901)
17	LCD CLK	O	Serial clock signal output to LCD driver IC (IC901)
18	BUS SI	I	SONY bus data signal input
19	BUS SO	O	SONY bus data signal output
20	BUS CLK	I	SONY bus clock signal input
21	BUS CLK GEN	O	SONY bus clock signal output
22	AM ON	O	AM select signal output FM circuit power supply control output of tuner unit (TU601) “H”: FM on
23	FM ON	O	FM select signal output FM circuit power supply control output of tuner unit (TU601) “H”: FM on
24	VDD1	—	Power supply pin
25	AVSS	—	Ground pin
26	ST IND	I/O	Stereo signal input/monaural control signal output At forced monaural on: “L” output At forced monaural off: input mode, stereo on for “L” input
27	SHIFT/PH1	I	Rotary commander shift key signal input Not used in this set.
28	S METER	I	S meter signal input from tuner unit (TU601)
29, 30	KEY0, KEY1	I	A/D key signal input Input of A/D key matrix and front panel attachment decision.
31	R COM	I	Rotary commander AD level signal input Sense to key voltage level of rotary commander
32	DST SEL	I	Destination select input
33	TEST	I	Test mode select signal input “L”: test mode
34	AVREF	—	Analog reference voltage pin
35	AD ON	O	LCD INHIBIT signal output Not used in this set.
36	\overline{RESET}	I	Reset signal input from reset IC (IC902) “H”: reset
37	XT2	—	Connect to sub clock (32.768 kHz)
38	XT1	—	Connect to sub clock (32.768 kHz)
39	IC	—	At on board writer: 12 V power supply pin (usually ground pin)
40	X2	—	Connect to crystal oscillator (8.38 MHz)
41	X1	—	Connect to crystal oscillator (8.38 MHz)
42	VSS1	—	Ground pin
43	KEY ACK	I	Key acknowledge signal input
44	SIRCS	I	Wireless remote control signal input from remote control receiver IC (IC951)
45	$\overline{SELF SW}$	I	SELF switch detection signal input “L”: SELF switch on
46	$\overline{BU IN}$	I	Backup power supply detection signal input
47	NOSE	I	Front panel attachment detection signal input from SW801 “L”: panel on

Pin No.	Pin Name	I/O	Pin Description
48	ILL ON	O	Front panel illumination power supply control signal output “H”: illumination on
49	A REMO	O	External amplifier remote control signal output
50	CDM ON	O	CD mechanism deck power supply control signal output “H”: CD power on
51	XCD ON	O	CD DSP power supply control signal output “H”: CD power on
52	ACC IN	I	Accessory power supply detection signal input “L”: accessory on
53	BUS ON	O	SONY bus on signal output Not used in this set. (open)
54	BUS RST	O	SONY bus reset signal output Not used in this set. (open)
55	PW ON	O	System power supply control signal output
56	X SO PLL SO	O	CD and PLL serial data signal output
57	X SI	I	CD serial data signal input
58	X SCK PLL SCK	O	CD and PLL serial data signal output
59	RF OK	I	CD RF OK signal input
60	CD RST	O	CD reset control signal output
61	IN SW/PH2	I	DISC IN switch detection signal input “L”: DISC IN switch on
62	X AO	O	Parameter/command select signal output
63	STB	O	CD strobe signal output
64	L SW	I	LIMIT switch detection signal input “L”: LIMIT switch on

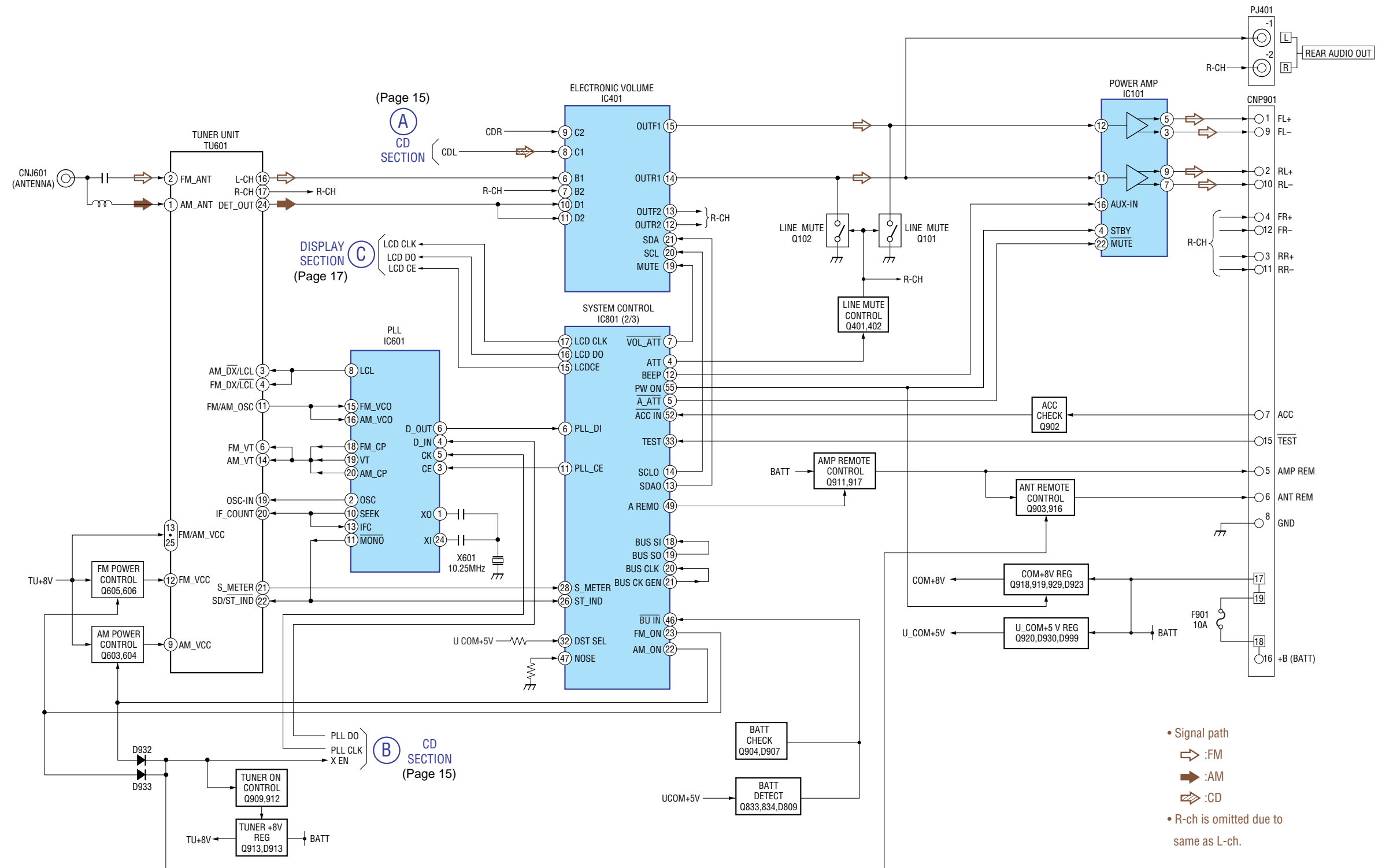
3-2. CIRCUIT BOARDS LOCATION



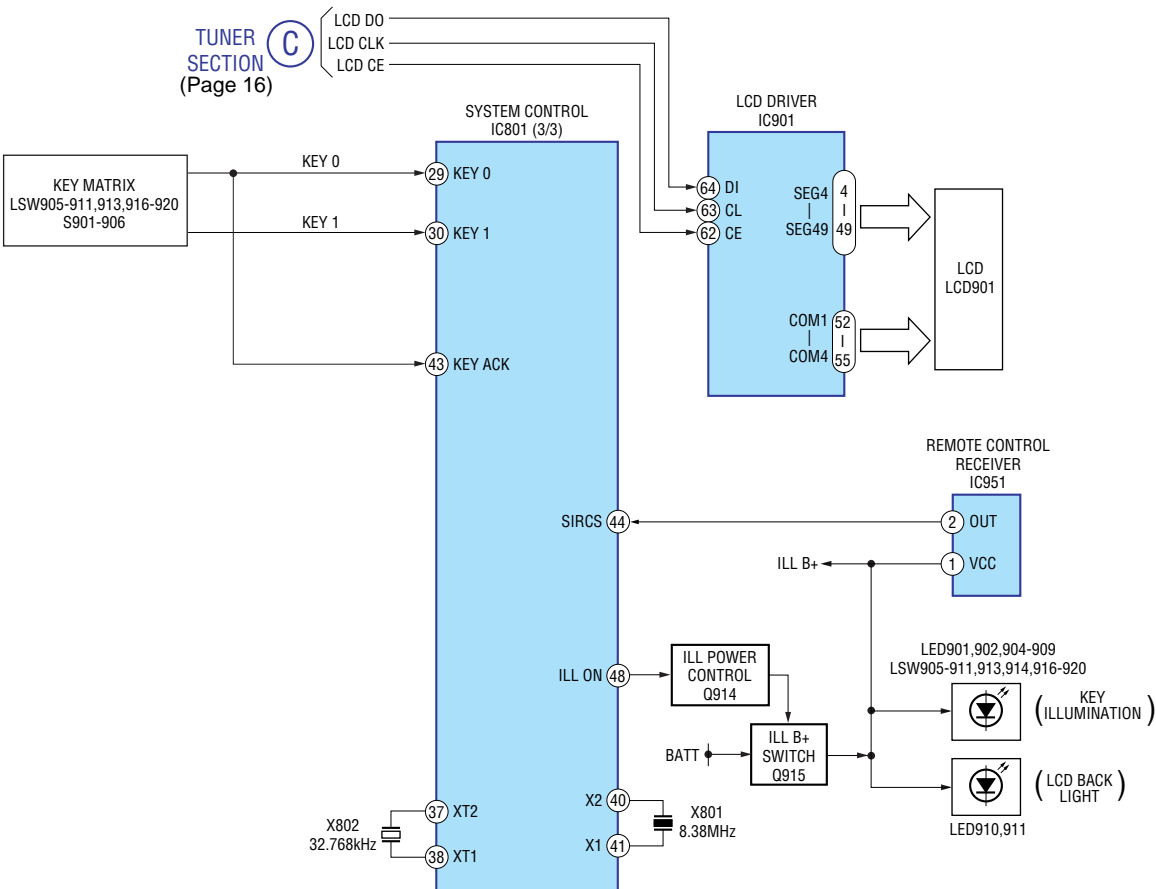
3-3. BLOCK DIAGRAM — CD SECTION —



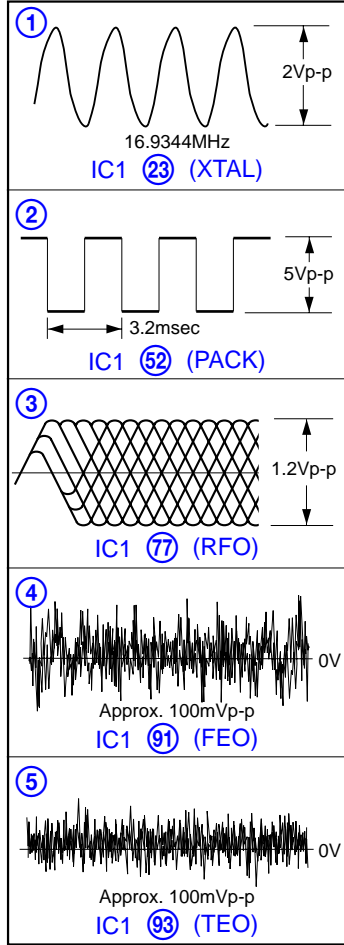
3-4. BLOCK DIAGRAM — TUNER SECTION —



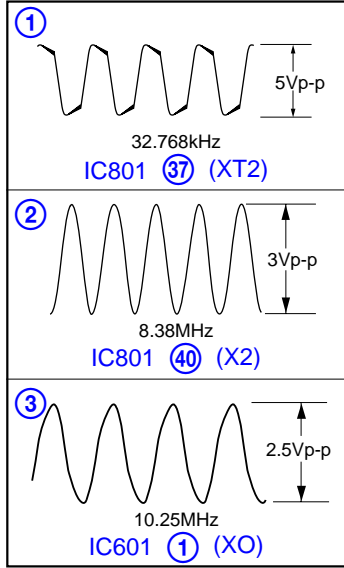
3-5. BLOCK DIAGRAM — DISPLAY SECTION —



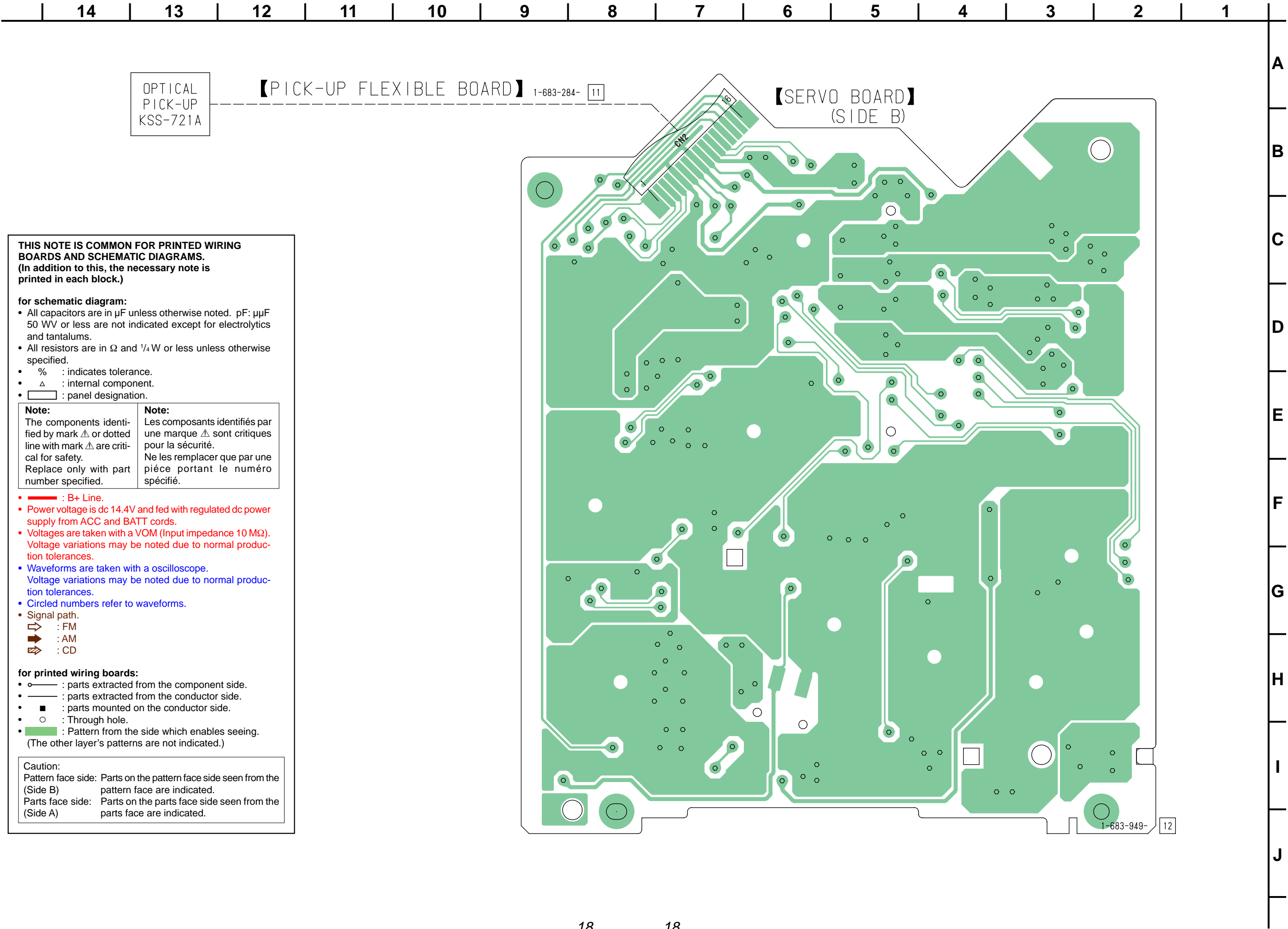
• Waveforms
— Servo Board —
(MODE: CD PLAY)

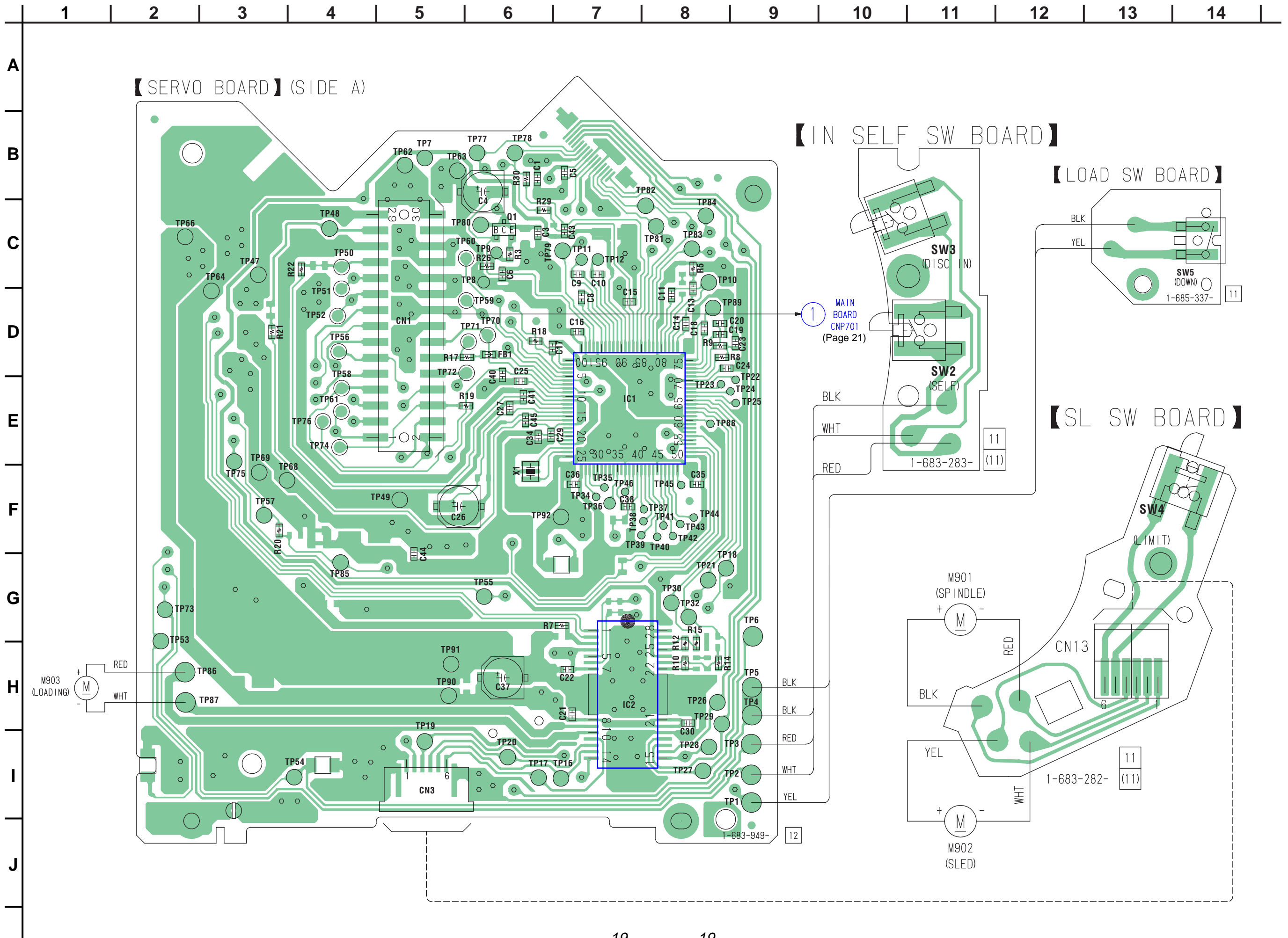


— Main Board —



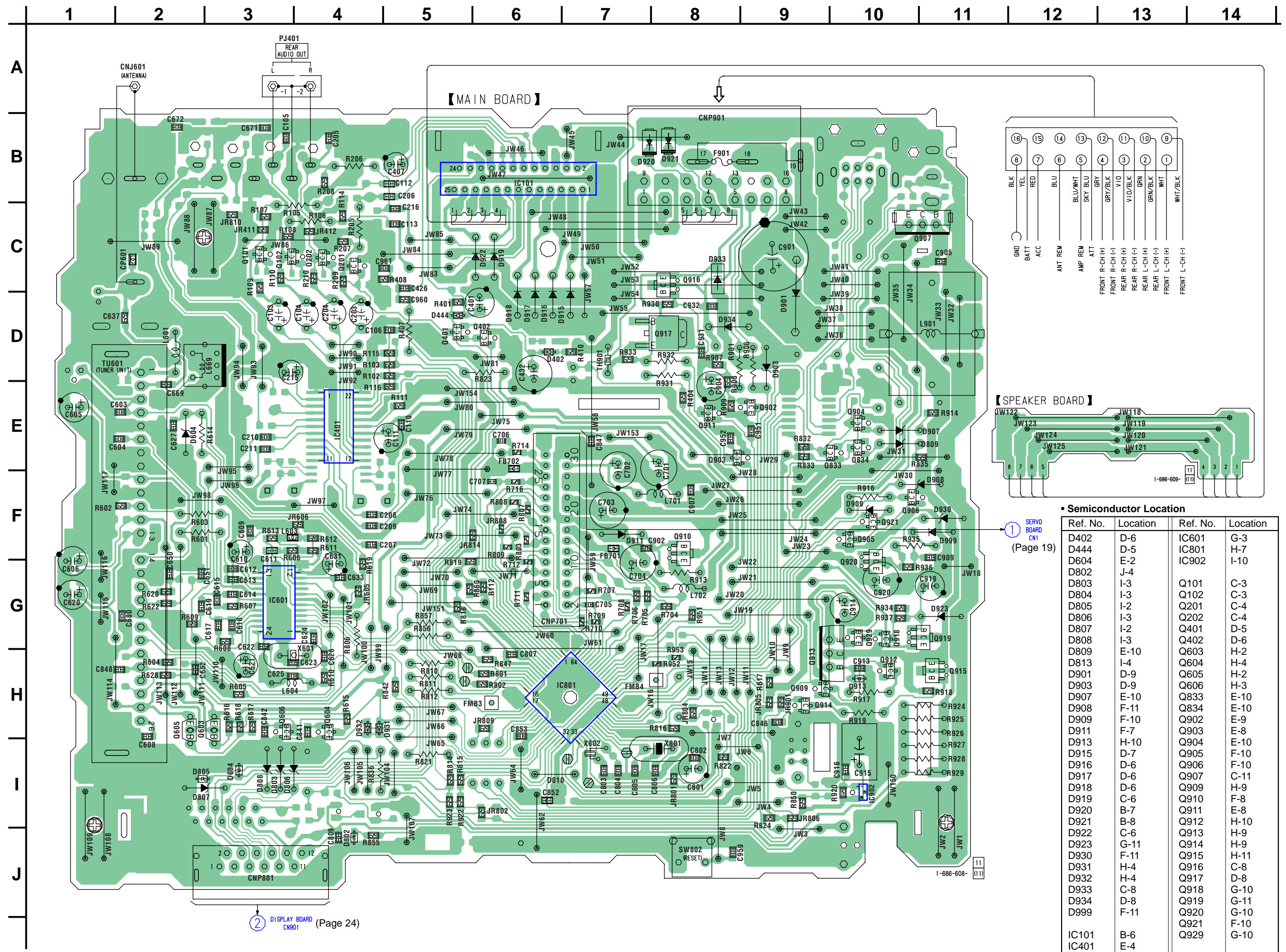
3-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 14 for Circuit Boards Location.





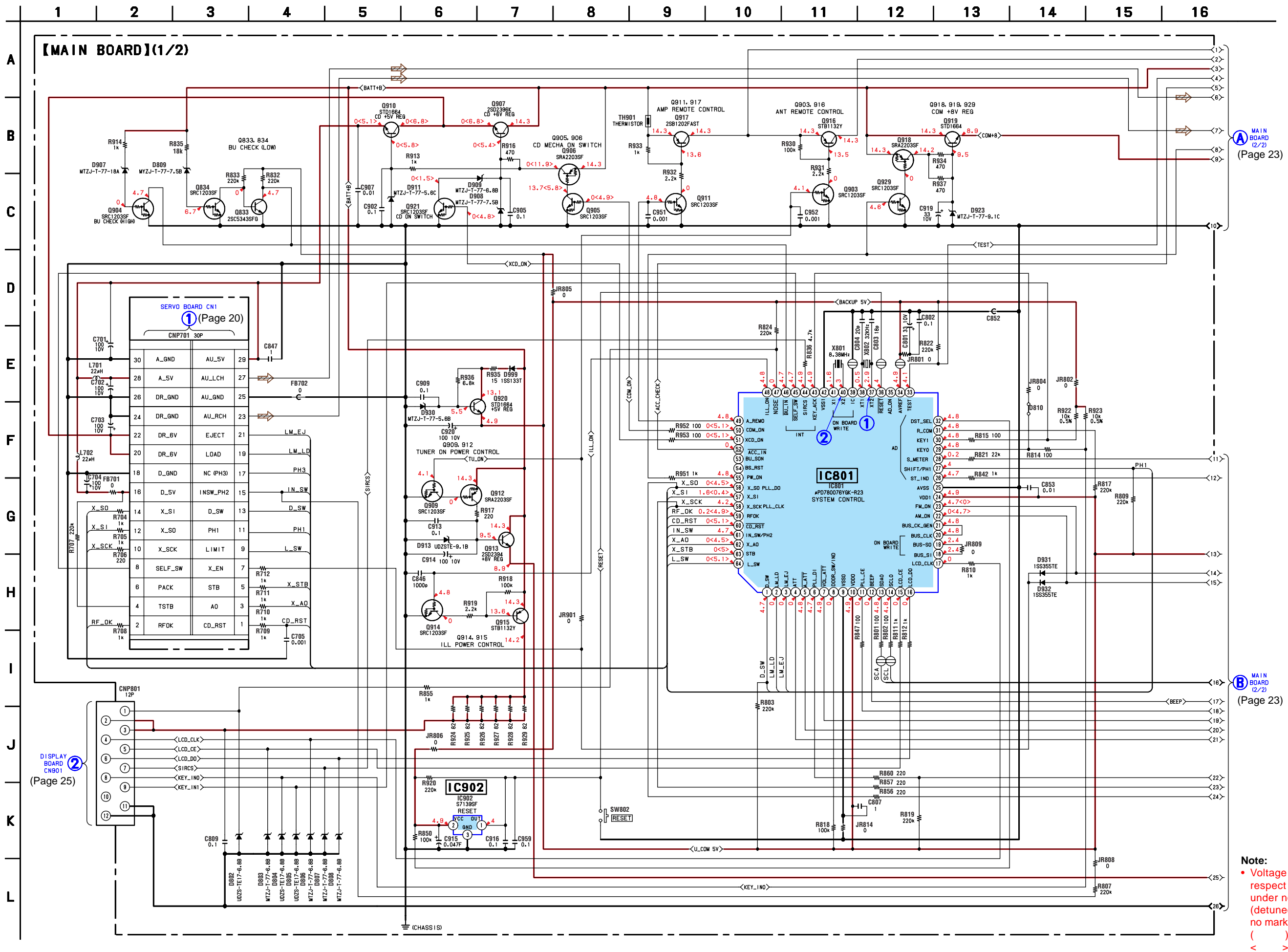


3-8. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 14 for Circuit Boards Location.



• Semiconductor Location			
Ref. No.	Location	Ref. No.	Location
D402	D-6	IC601	G-3
D444	D-5	IC801	H-7
D604	E-2	IC902	I-10
D802	J-4		
D803	I-3	Q101	C-3
D804	I-3	Q102	C-3
D805	I-2	Q201	C-4
D806	I-3	Q202	C-4
D807	I-2	Q401	D-5
D808	I-3	Q402	D-6
D809	E-10	Q603	H-2
D813	I-4	Q604	H-4
D901	D-9	Q605	H-2
D903	D-9	Q606	H-3
D907	E-10	Q833	E-10
D908	F-11	Q834	E-10
D909	F-10	Q902	E-9
D911	F-7	Q903	E-8
D913	H-10	Q904	E-10
D915	D-7	Q905	F-10
D916	D-6	Q906	F-10
D917	D-6	Q907	C-11
D918	D-6	Q909	H-9
D919	C-6	Q910	F-8
D920	B-7	Q911	E-8
D921	B-8	Q912	H-10
D922	C-6	Q913	H-9
D923	G-11	Q914	H-9
D930	F-11	Q915	H-11
D931	H-4	Q916	C-8
D932	H-4	Q917	D-8
D933	C-8	Q918	G-10
D934	D-8	Q919	G-11
D999	F-11	Q920	G-10
		Q921	F-10
IC101	B-6	Q929	G-10
IC401	E-4		

3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 17 for Waveforms.

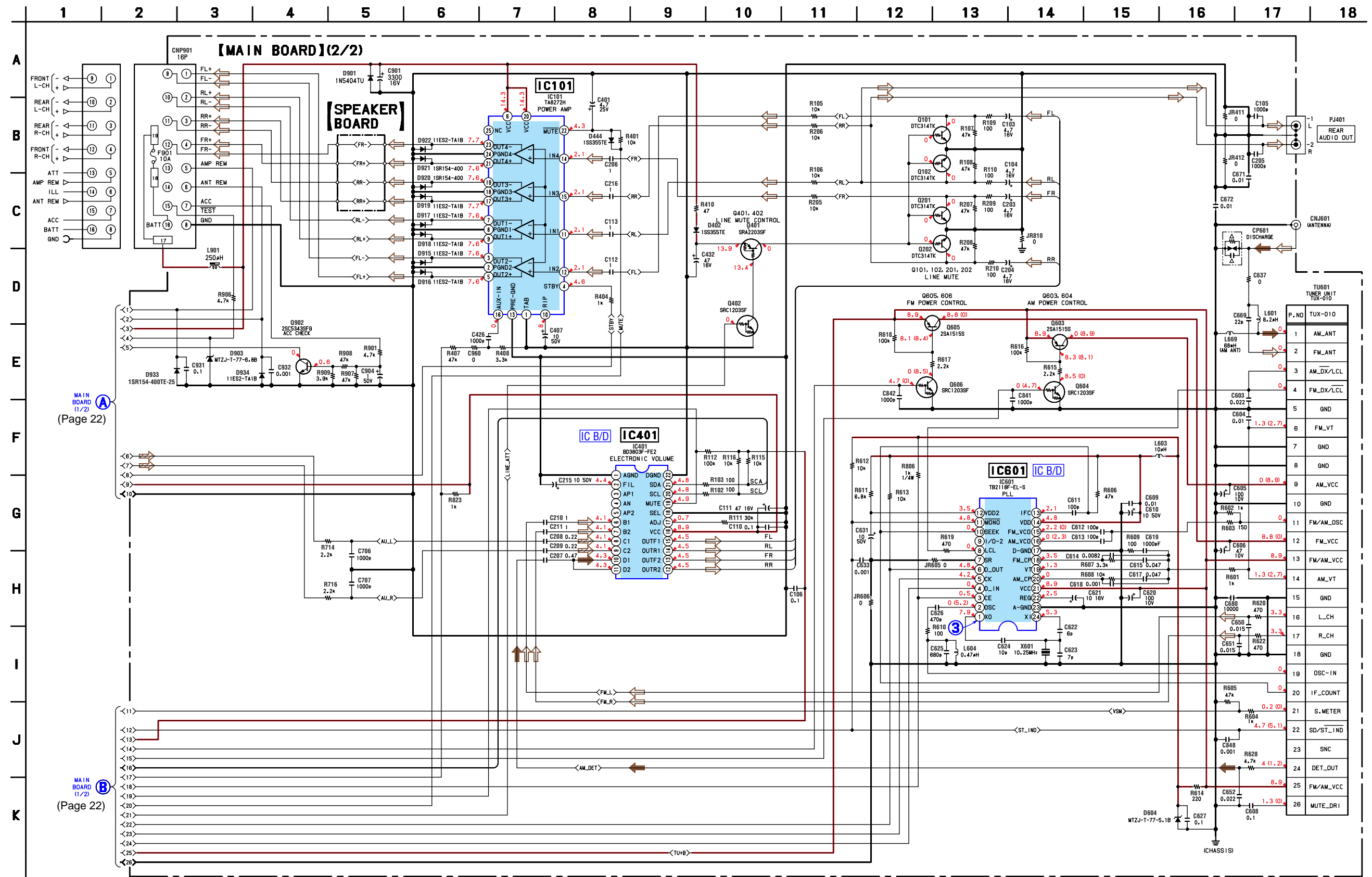


Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.

no mark : FM
 () : AM
 < > : CD PLAY

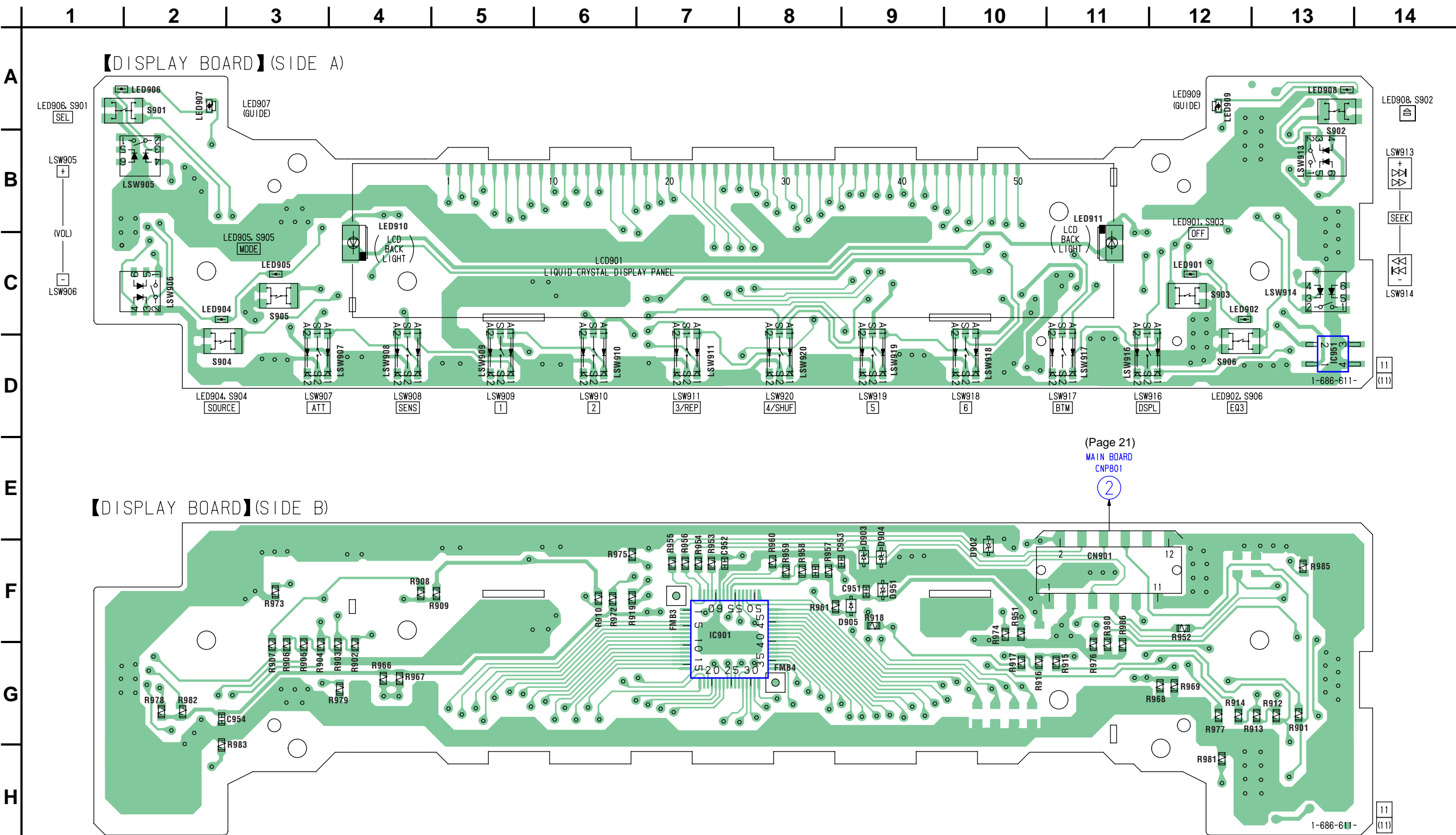
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 26 for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM
 () : AM
 < > : CD PLAY

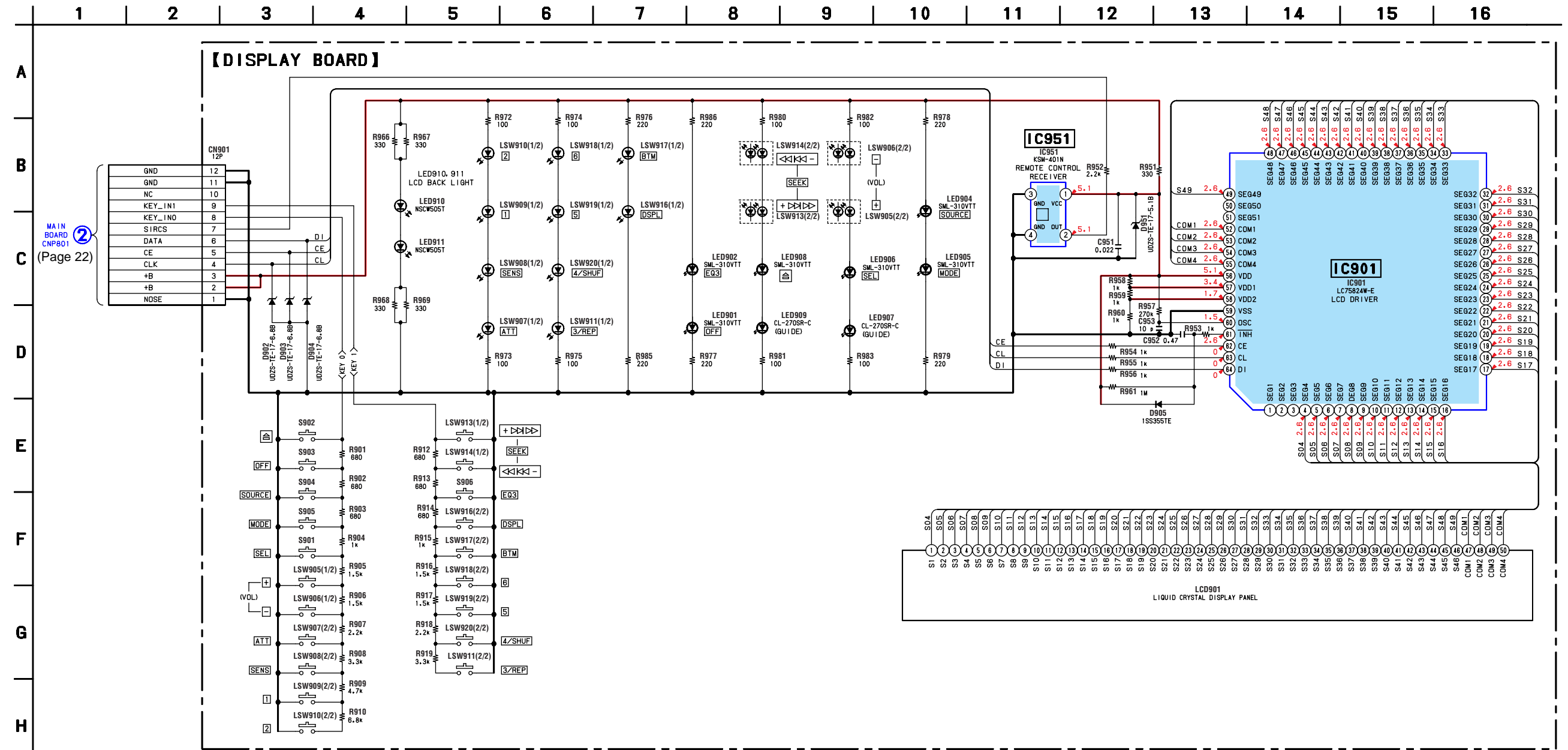
3-11. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 14 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D902	F-10	LED902	C-12
D903	F-9	LED904	C-2
D904	F-9	LED905	C-3
D905	F-9	LED906	A-2
D951	F-9	LED907	A-2
		LED908	A-13
IC901	F-7	LED909	A-12
IC951	D-13	LED910	C-4
		LED911	C-11
LED901	C-12		

3-12. SCHEMATIC DIAGRAM — DISPLAY SECTION —

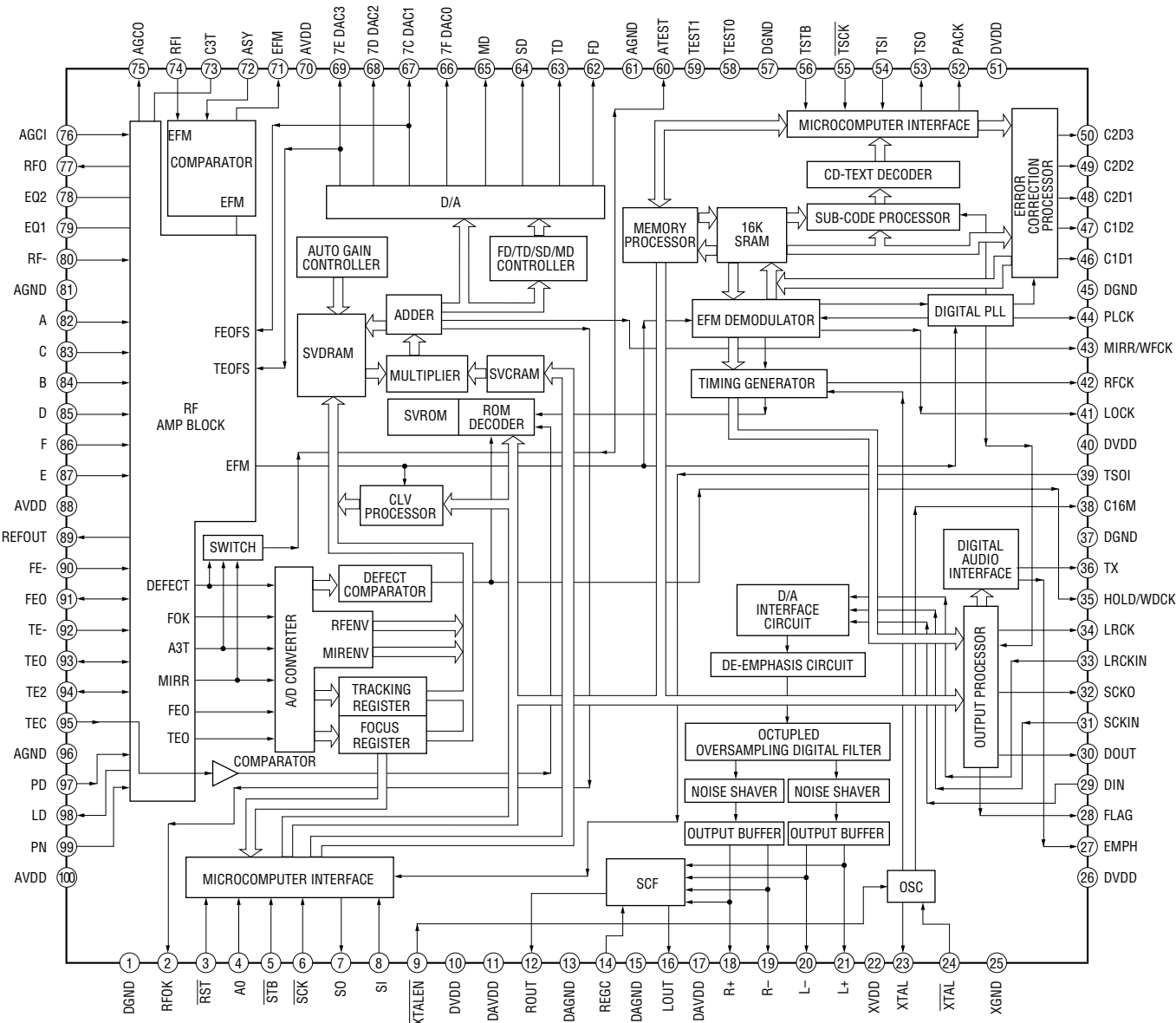


Note:

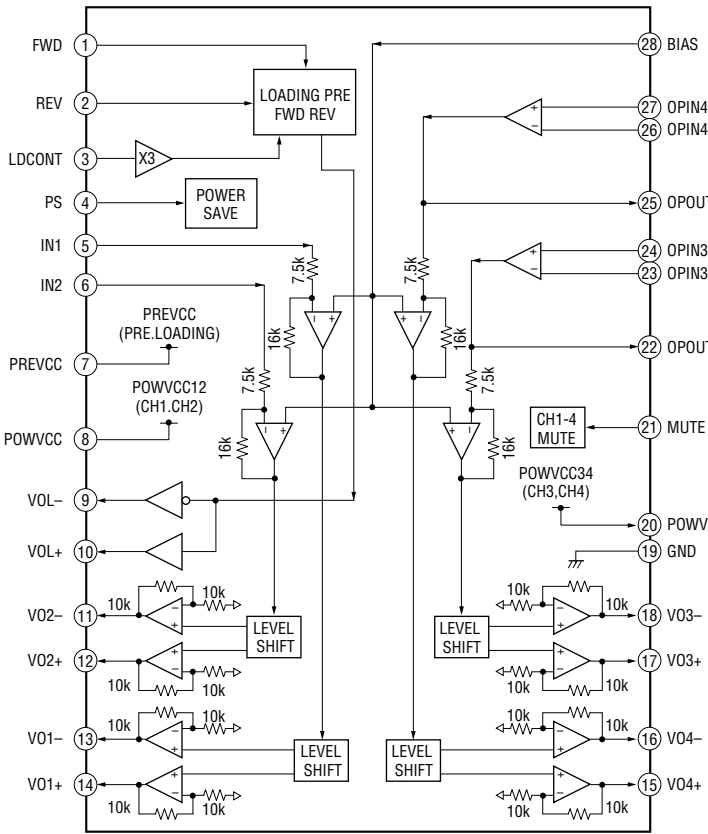
- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM

3-13. IC BLOCK DIAGRAMS

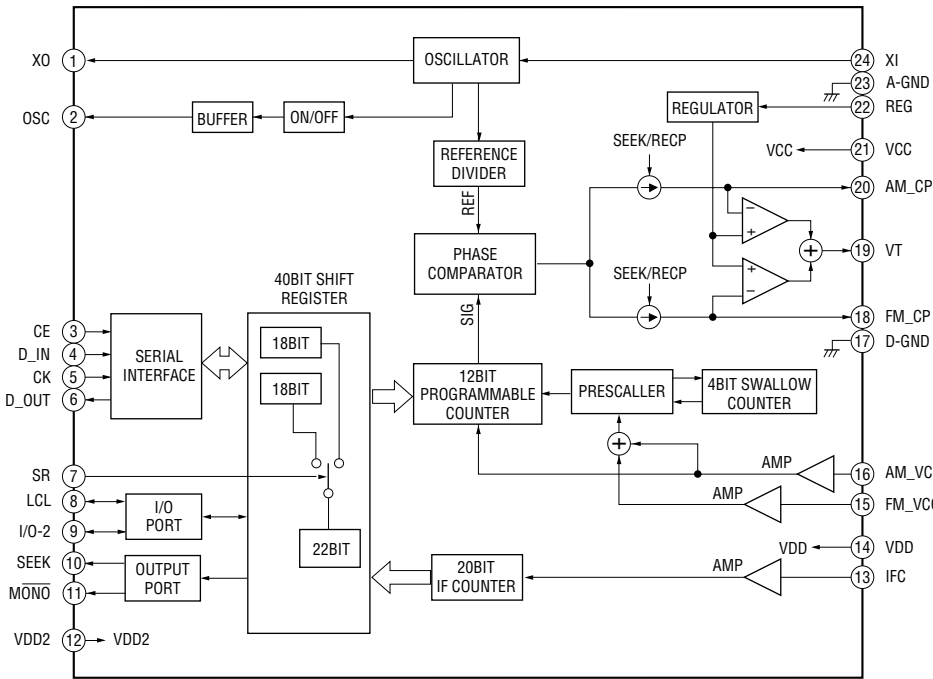
IC1 μPD63711GC-8EU (SERVO Board)



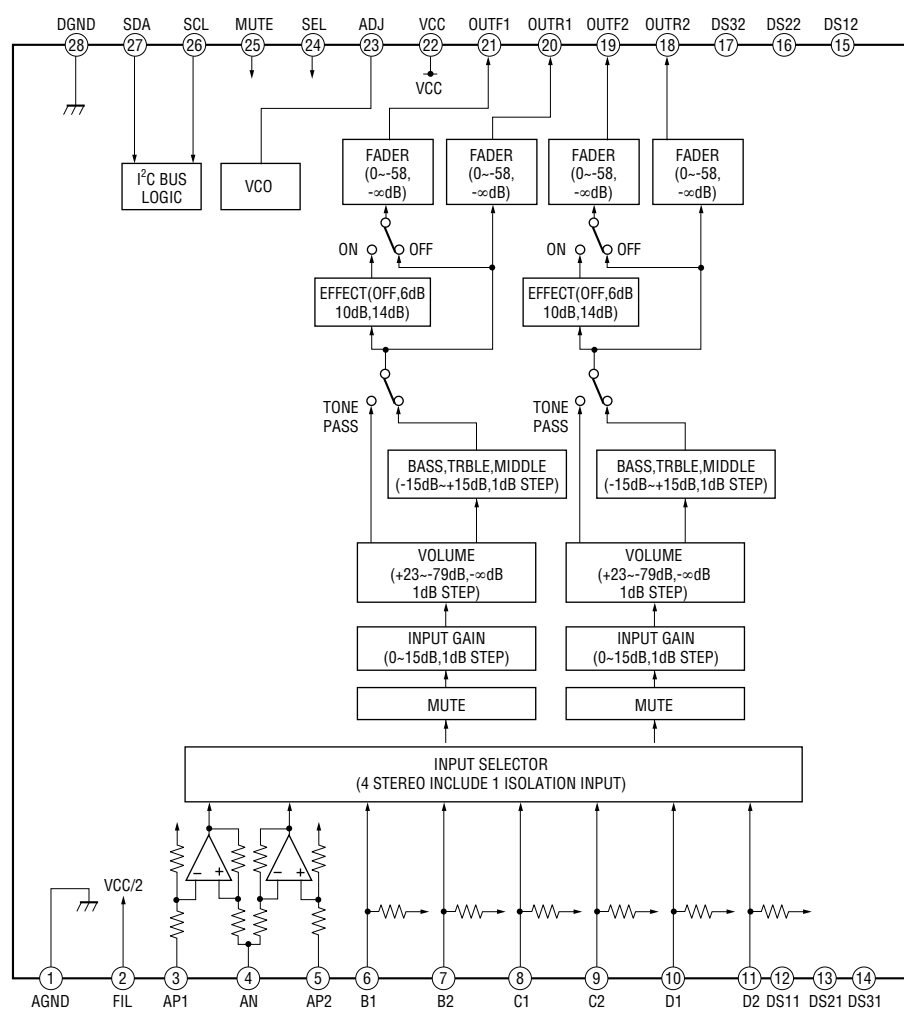
IC2 BA5810FP-E2 (SERVO Board)



IC601 TB2118F-EL-S (MAIN Board)





IC401 BD3803F (MAIN Board)




SECTION 4
EXPLODED VIEWS

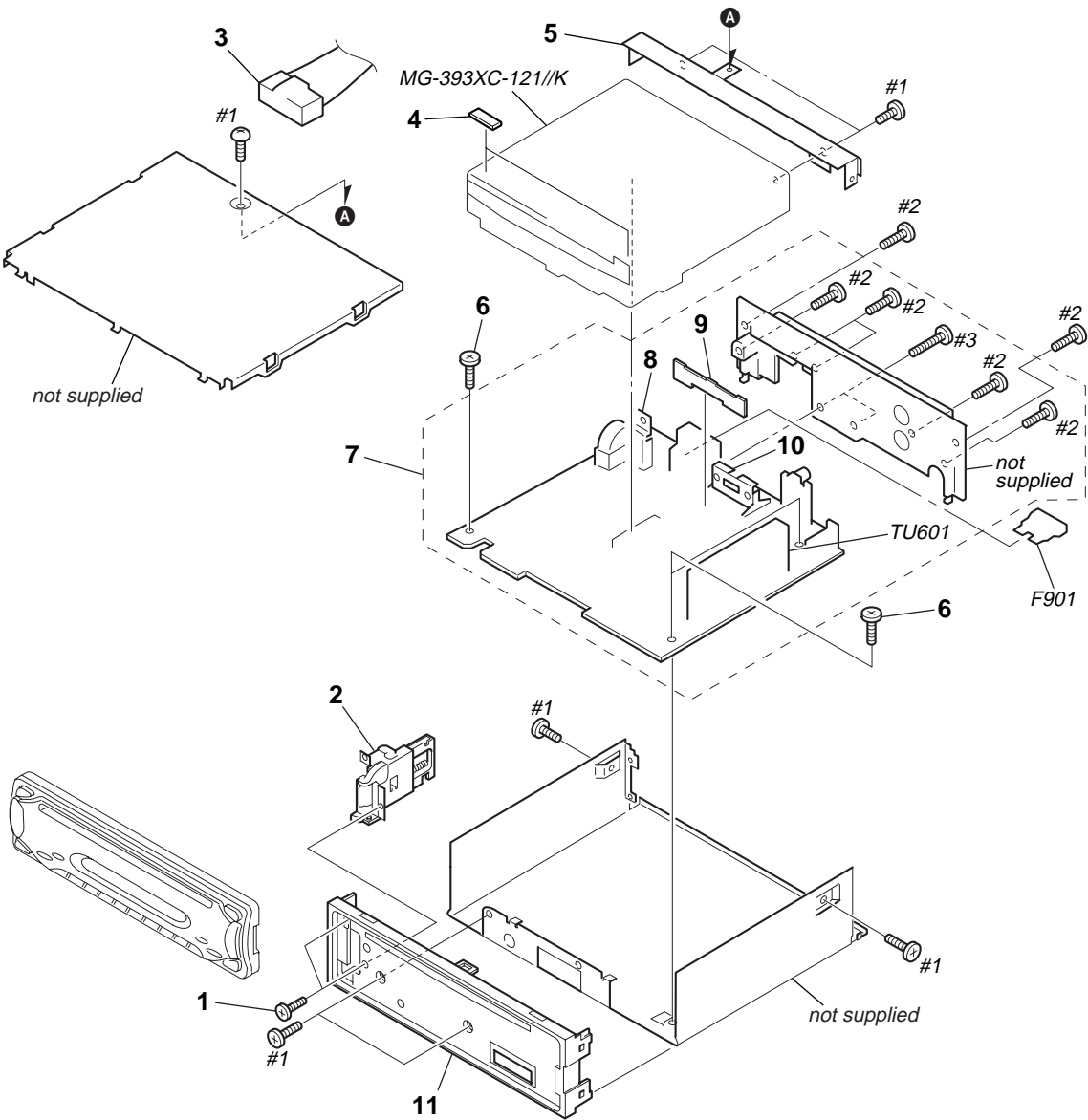
- NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE) ... (RED)
Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

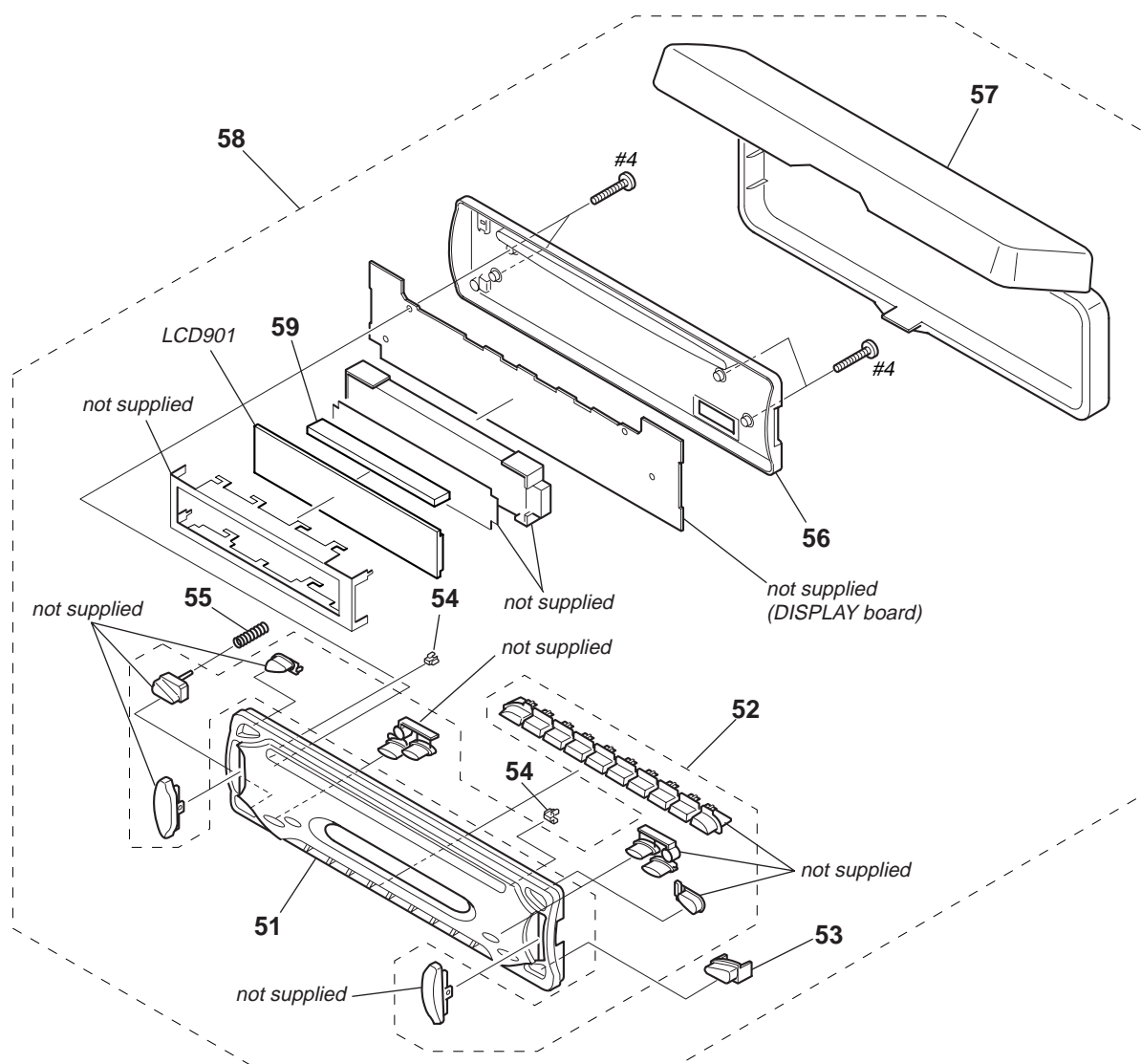
4-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-231-472-01	SCREW (+B 2X4)	
2	X-3382-588-1	LOCK ASSY (S)	
3	1-776-206-21	CORD (WITH CONNECTOR) (POWER)	
* 4	3-024-285-01	CUSHION (RUBBER)	
5	3-246-007-01	BRACKET (CD)	
6	3-922-535-11	SCREW (+BTT)	
7	A-3274-604-A	MAIN BOARD, COMPLETE	
8	3-041-261-11	BRACKET (TR)	

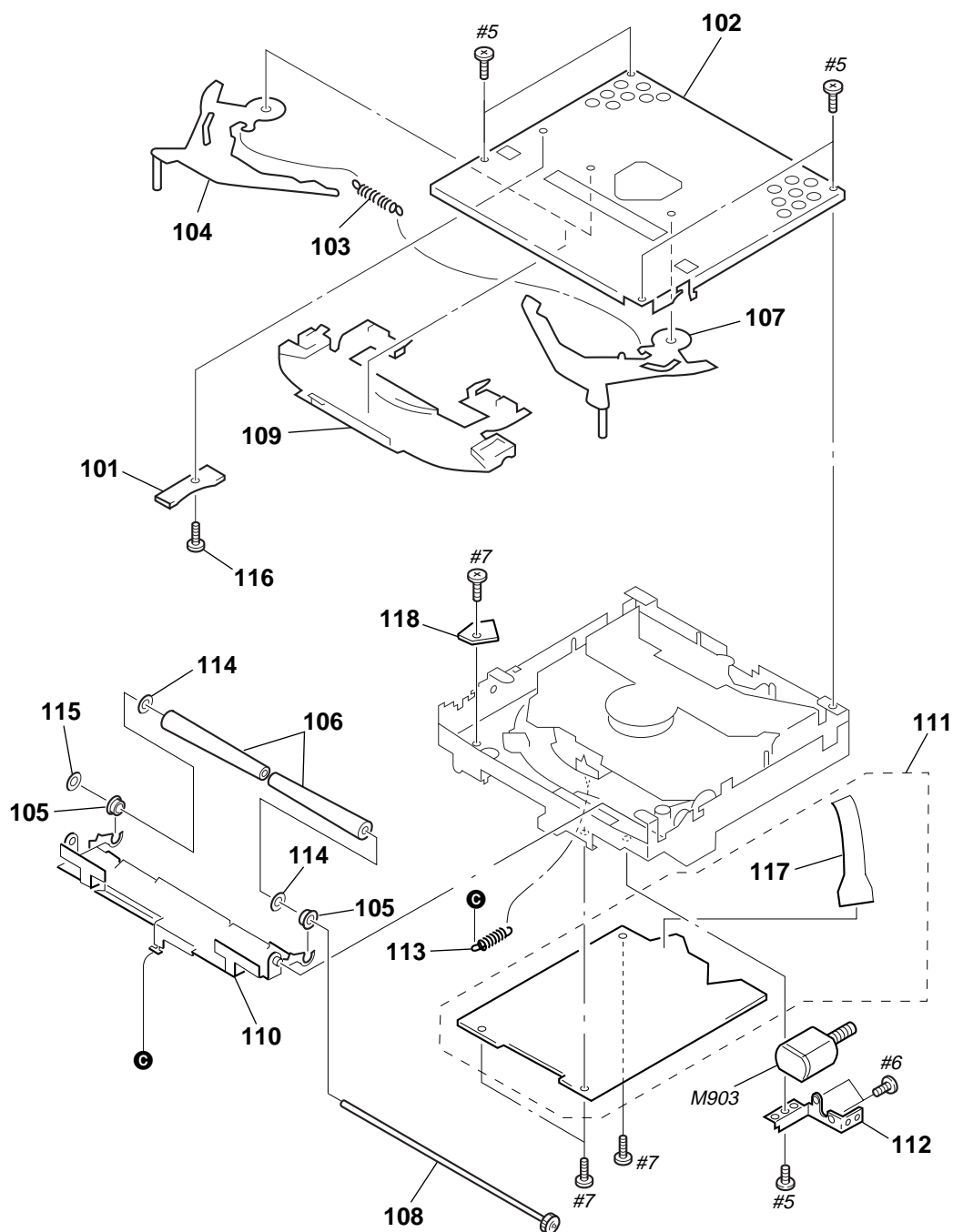
Ref. No.	Part No.	Description	Remark
9	A-3274-647-A	SPEAKER BOARD, COMPLETE	
* 10	3-019-565-01	BRACKET (IC)	
11	X-3382-622-1	PANEL (1) ASSY, SUB	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU601	A-3220-835-A	TUNER UNIT (TUX-010)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-685-795-09	SCREW +PTT 2.6X12 (S)	

4-2. FRONT PANEL SECTION



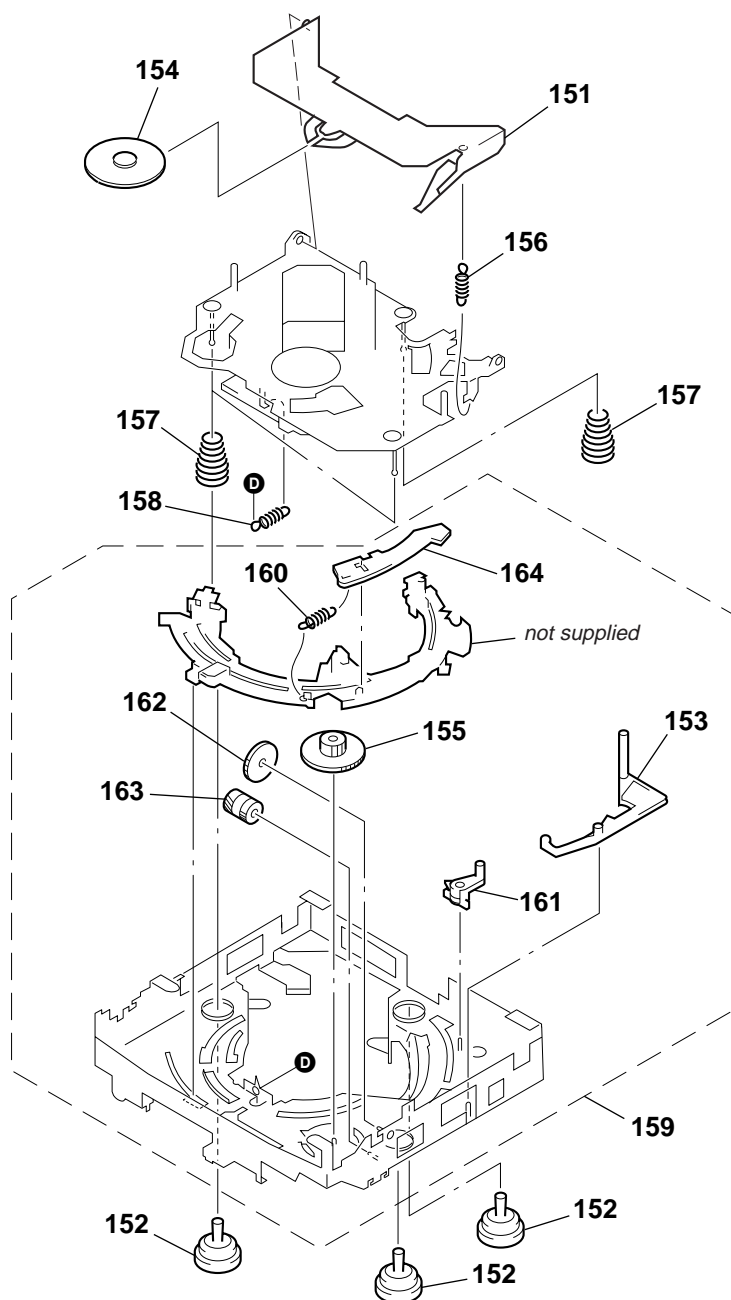
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3382-620-1	PANEL SUB ASSY, FRONT		57	X-3378-390-3	CASE ASSY (for FRONT PANEL)	
52	X-3382-918-1	BUTTON ASSY (S)		58	A-3315-941-A	PANEL COMPLETE ASSY, FRONT	
53	3-245-998-01	FILTER (IR)		59	1-694-988-11	CONDUCTIVE BOARD, CONNECTION	
54	3-246-002-01	PLATE (CD), LIGHT GUIDE		LCD901	1-805-079-11	DISPLAY PANEL, LIQUID CRYSTAL	
55	3-246-211-01	SPRING (RELEASE)		#4	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
56	3-246-003-01	PANEL, FRONT BACK					

4-3. CD MECHANISM SECTION (1) (MG-393XC-121//K)



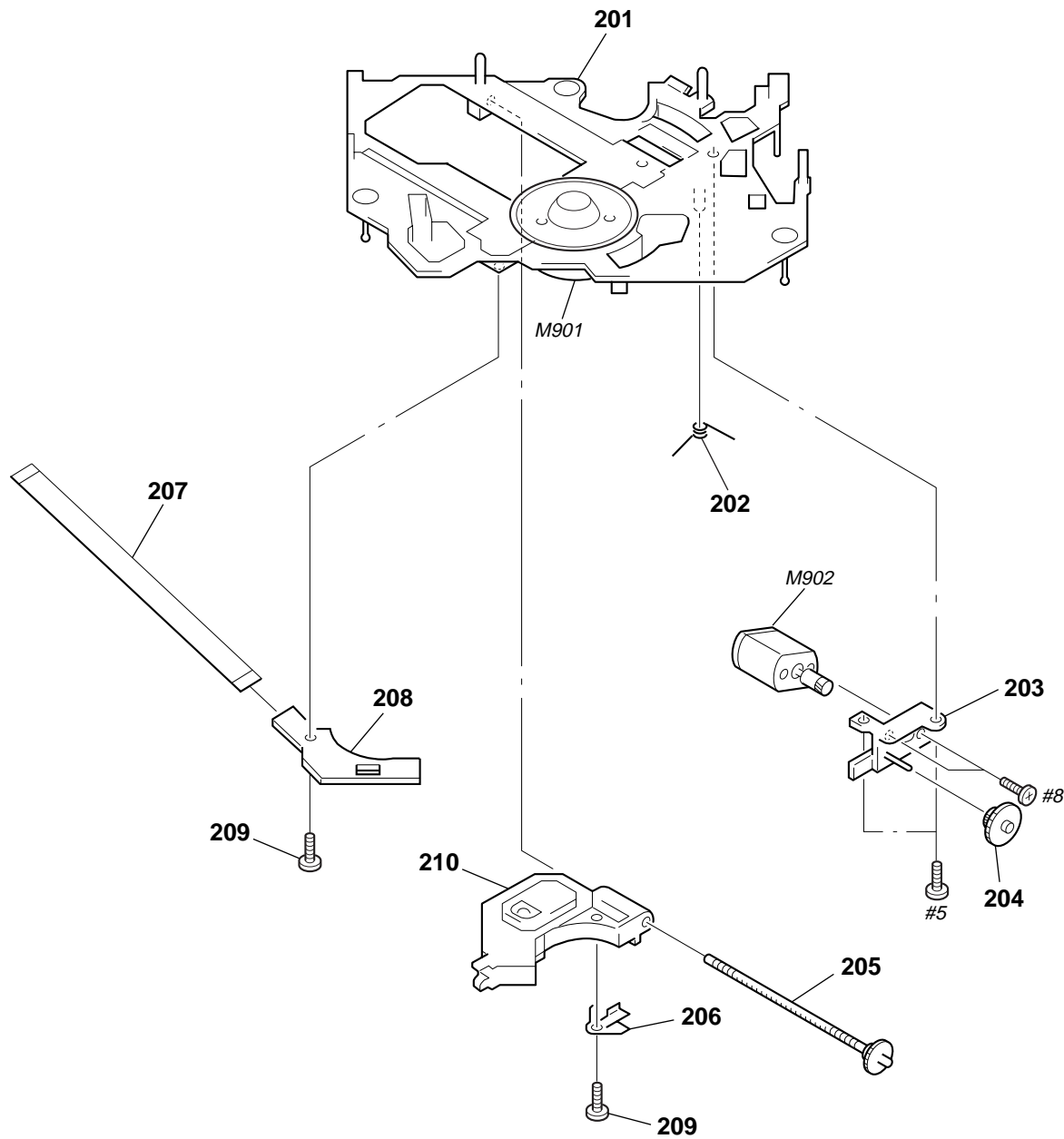
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-683-283-11	IN SELF SW BOARD		112	3-221-779-02	BRACKET (MOTOR)	
102	3-040-039-03	CHASSIS (T)		113	3-040-034-01	SPRING (RA), TENSION	
103	3-040-038-01	SPRING (LR), TENSION		114	3-040-042-01	WASHER	
104	3-040-050-01	LEVER (L)		115	3-043-880-01	RING (RA), RETAINING	
105	3-040-022-01	RETAINER (ROLLER), SHAFT		116	3-044-206-11	SCREW, SPECIAL	
106	3-040-044-01	ROLLER (S)		117	1-683-284-11	PICK-UP FLEXIBLE BOARD	
107	3-040-067-01	LEVER (R)		118	1-685-337-11	LOAD SW BOARD	
108	A-3301-980-A	SHAFT ROLLER ASSY		M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	
109	3-040-037-01	GUIDE (DISC)		#5	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
110	3-040-040-03	ARM (ROLLER)		#6	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3	
111	A-3283-233-A	SERVO BOARD, COMPLETE		#7	7-628-253-00	SCREW, SPECIAL	

4-4. CD MECHANISM SECTION (2) (MG-393XC-121//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-040-025-02	ARM, CHUCKING		158	3-040-033-01	SPRING (KF1), TENSION	
152	3-040-031-01	DAMPER (T)		159	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	
153	3-040-056-01	LEVER (D)		160	3-040-059-01	SPRING (TR), TENSION	
154	3-040-024-01	RETAINER (DISC)		161	3-040-057-01	LEVER (LOCK)	
155	3-040-054-01	WHEEL (LW), WORM		162	3-040-058-01	GEAR (MDL)	
156	3-040-026-01	SPRING (CH), TENSION		163	3-040-052-01	WHEEL (U), WORM	
157	3-040-032-01	SPRING (FL), COMPRESSION		164	3-040-051-02	LEVER (TR)	

4-5. CD MECHANISM SECTION (3)
(MG-393XC-121//K)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-3378-480-1	CHASSIS (OP) ASSY (including M901)		208	1-683-282-11	SL SW BOARD	
202	3-040-029-01	SPRING (SL), TORSION		209	3-909-607-01	SCREW	
203	3-040-045-01	BASE (DRIVING)		\triangle 210	8-820-165-06	OPTICAL PICK-UP KSS-721A/C-RP	
204	3-040-194-01	GEAR (MIDWAY)		M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	
205	A-3301-983-A	SHAFT (FEED) ASSY		#5	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
206	3-040-030-01	SPRING (FEED), PLATE		#8	7-627-850-28	SCREW, PRECISION +P 1.4X3	
207	1-823-641-11	CABLE, FLEXIBLE FLAT (6 CORE)					

SECTION 5 ELECTRICAL PARTS LIST

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
		DISPLAY BOARD *****					LSW910	1-771-883-11	SWITCH, TACTILE (WITH LED) (2)				
							LSW911	1-771-883-11	SWITCH, TACTILE (WITH LED) (3/REP)				
							LSW913	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SEEK + ▷▷⏏▷▷)				
	1-694-988-11	CONDUCTIVE BOARD, CONNECTION < CAPACITOR >					LSW914	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SEEK ◀◀⏏◀◀)				
C951	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (DSPL)				
C952	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		LSW917	1-771-883-11	SWITCH, TACTILE (WITH LED) (BTM)				
C953	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		LSW918	1-771-883-11	SWITCH, TACTILE (WITH LED) (6)				
		< CONNECTOR >					LSW919	1-771-883-11	SWITCH, TACTILE (WITH LED) (5)				
							LSW920	1-771-883-11	SWITCH, TACTILE (WITH LED) (4/SHUF)				
CN901	1-794-312-21	PIN, CONNECTOR 12P < DIODE >					< RESISTOR >						
							R901	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R902	1-216-819-11	METAL CHIP	680	5%	1/10W	
D902	8-719-978-33	DIODE DTZ-TT11-6.8B					R903	1-216-819-11	METAL CHIP	680	5%	1/10W	
D903	8-719-978-33	DIODE DTZ-TT11-6.8B					R904	1-216-821-11	METAL CHIP	1K	5%	1/10W	
D904	8-719-978-33	DIODE DTZ-TT11-6.8B					R905	1-218-851-11	RES-CHIP	1.5K	2%	1/16W	
D905	8-719-988-61	DIODE 1SS355TE-17											
D951	8-719-069-54	DIODE UDZS-TE-17-5.1B < IC >					R906	1-218-851-11	RES-CHIP	1.5K	2%	1/16W	
							R907	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
IC901	6-702-852-01	IC LC75824W-E					R908	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
IC951	8-749-017-35	IC KSM-401N < LIQUID CRYSTAL DISPLAY >					R909	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
							R910	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	
LCD901	1-805-079-11	DISPLAY PANEL, LIQUID CRYSTAL < DIODE >					R912	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R913	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R914	1-216-819-11	METAL CHIP	680	5%	1/10W	
LED901	8-719-053-09	LED SML-310VTT86 (OFF)					R915	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LED902	8-719-053-09	LED SML-310VTT86 (EQ3)					R916	1-218-851-11	RES-CHIP	1.5K	2%	1/16W	
LED904	8-719-053-09	LED SML-310VTT86 (SOURCE)											
LED905	8-719-053-09	LED SML-310VTT86 (MODE)					R917	1-218-851-11	RES-CHIP	1.5K	2%	1/16W	
LED906	8-719-053-09	LED SML-310VTT86 (SEL)					R918	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R919	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
LED907	8-719-082-38	LED CL-270SR-C-TS (GUIDE)					R951	1-216-815-11	METAL CHIP	330	5%	1/10W	
LED908	8-719-053-09	LED SML-310VTT86 (㊦)					R952	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
LED909	8-719-082-38	LED CL-270SR-C-TS (GUIDE)											
LED910	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT)					R953	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LED911	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT) < SWITCH >					R954	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R955	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LSW905	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (VOL +)					R956	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LSW906	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (VOL -)					R957	1-216-850-11	METAL CHIP	270K	5%	1/10W	
LSW907	1-771-883-11	SWITCH, TACTILE (WITH LED) (ATT)											
LSW908	1-771-883-11	SWITCH, TACTILE (WITH LED) (SENS)					R958	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LSW909	1-771-883-11	SWITCH, TACTILE (WITH LED) (1)					R959	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R960	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R961	1-216-857-11	METAL CHIP	1M	5%	1/10W	
							R966	1-216-815-11	METAL CHIP	330	5%	1/10W	
							R967	1-216-815-11	METAL CHIP	330	5%	1/10W	
							R968	1-216-815-11	METAL CHIP	330	5%	1/10W	

CDX-L410X

DISPLAY	IN SELF SW	LOAD SW	MAIN
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Ref. No.	Part No.	Description			Remark
R969	1-216-815-11	METAL CHIP	330	5%	1/10W
R972	1-216-809-11	METAL CHIP	100	5%	1/10W
R973	1-216-809-11	METAL CHIP	100	5%	1/10W
R974	1-216-809-11	METAL CHIP	100	5%	1/10W
R975	1-216-809-11	METAL CHIP	100	5%	1/10W
R976	1-216-813-11	METAL CHIP	220	5%	1/10W
R977	1-216-813-11	METAL CHIP	220	5%	1/10W
R978	1-216-813-11	METAL CHIP	220	5%	1/10W
R979	1-216-813-11	METAL CHIP	220	5%	1/10W
R980	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-809-11	METAL CHIP	100	5%	1/10W
R982	1-216-809-11	METAL CHIP	100	5%	1/10W
R983	1-216-809-11	METAL CHIP	100	5%	1/10W
R985	1-216-813-11	METAL CHIP	220	5%	1/10W
R986	1-216-813-11	METAL CHIP	220	5%	1/10W
< SWITCH >					
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEL)			
S902	1-771-884-11	SWITCH, TACTILE (WITH LED) (≡)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (OFF)			
S904	1-771-884-11	SWITCH, TACTILE (WITH LED) (SOURCE)			
S905	1-771-884-11	SWITCH, TACTILE (WITH LED) (MODE)			
S906	1-771-884-11	SWITCH, TACTILE (WITH LED) (EQ3)			

	1-683-283-11	IN SELF SW BOARD			

< SWITCH >					
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)			

	1-685-337-11	LOAD SW BOARD			

< SWITCH >					
SW5	1-529-566-31	SWITCH, PUSH (1 KEY) (DOWN)			

	A-3274-604-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD, COMPLETE)			

*	3-019-565-01	BRACKET (IC)			
	3-041-261-11	BRACKET (TR)			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
< CAPACITOR >					
C103	1-124-259-11	ELECT	4.7uF	20%	16V
C104	1-124-259-11	ELECT	4.7uF	20%	16V
C105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C111	1-124-589-11	ELECT	47uF	20%	16V
C112	1-164-346-11	CERAMIC CHIP	1uF		16V
C113	1-164-346-11	CERAMIC CHIP	1uF		16V
C203	1-124-259-11	ELECT	4.7uF	20%	16V
C204	1-124-259-11	ELECT	4.7uF	20%	16V

Ref. No.	Part No.	Description	Remark		
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C208	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C209	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C210	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C211	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-164-346-11	CERAMIC CHIP	1uF		16V
C401	1-126-163-11	ELECT	4.7uF	20%	50V
C407	1-126-964-11	ELECT	10uF	20%	50V
C426	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-124-589-11	ELECT	47uF	20%	16V
C603	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C605	1-104-665-11	ELECT	100uF	20%	10V
C606	1-126-947-11	ELECT	47uF	20%	10V
C608	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C609	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C612	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C613	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C614	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C615	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C617	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C618	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C619	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C620	1-104-665-11	ELECT	100uF	20%	10V
C621	1-104-396-11	ELECT	10uF	20%	16V
C622	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C623	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C624	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C625	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C626	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C627	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C631	1-126-964-11	ELECT	10uF	20%	50V
C633	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C637	1-216-295-11	SHORT CHIP	0		
C650	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C651	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C652	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C669	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C671	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C672	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C680	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C701	1-124-584-00	ELECT	100uF	20%	10V
C702	1-124-584-00	ELECT	100uF	20%	10V
C703	1-124-584-00	ELECT	100uF	20%	10V
C704	1-124-584-00	ELECT	100uF	20%	10V
C705	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-124-229-00	ELECT	33uF	20%	10V
C802	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C803	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C804	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C807	1-115-156-11	CERAMIC CHIP	1uF		10V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D915	8-719-200-82	DIODE	11ES2		
C841	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D916	8-719-200-82	DIODE	11ES2		
C842	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D917	8-719-200-82	DIODE	11ES2		
C846	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D918	8-719-200-82	DIODE	11ES2		
C847	1-115-156-11	CERAMIC CHIP	1uF		10V	D919	8-719-200-82	DIODE	11ES2		
C848	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D920	8-719-053-18	DIODE	1SR154-400TE-25		
C852	1-469-144-21	FERRITE, EMI (SMD)				D921	8-719-053-18	DIODE	1SR154-400TE-25		
C853	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D922	8-719-200-82	DIODE	11ES2		
C901	1-135-473-21	ELECT	3300uF	20%	16V	D923	8-719-110-14	DIODE	RD9.1ES-B3		
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D930	8-719-109-89	DIODE	RD5.6ES-B2		
C904	1-126-160-11	ELECT	1uF	20%	50V	D931	8-719-988-61	DIODE	1SS355TE-17		
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D932	8-719-988-61	DIODE	1SS355TE-17		
C907	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D933	8-719-053-18	DIODE	1SR154-400TE-25		
C909	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D934	8-719-200-82	DIODE	11ES2		
C913	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D999	8-719-991-33	DIODE	1SS133T-77		
C914	1-104-665-11	ELECT	100uF	20%	10V	< FERRITE BEAD >					
C915	1-110-654-11	DOUBLE LAYERS	0.047F		5.5V	FB701	1-216-864-11	METAL CHIP	0	5%	1/10W
C916	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FB702	1-414-235-22	INDUCTOR, FERRITE BEAD			
C919	1-124-229-00	ELECT	33uF	20%	10V	< IC >					
C920	1-124-584-00	ELECT	100uF	20%	10V	IC101	8-759-827-12	IC	TA8272H		
C931	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC401	6-703-302-01	IC	BD3803F-FE2		
C932	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC601	8-759-586-59	IC	TB2118F-EL-S		
C951	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC801	6-802-552-01	IC	uPD780076YGK-R23-9ET		
C952	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC902	8-759-837-07	IC	S7139SF		
C959	1-164-156-11	CERAMIC CHIP	0.1uF		25V	< JUMPER RESISTOR >					
C960	1-216-864-11	METAL CHIP	0	5%	1/10W	JR411	1-216-864-11	METAL CHIP	0	5%	1/10W
< JACK >						JR412	1-216-864-11	METAL CHIP	0	5%	1/10W
CNJ601	1-793-598-11	JACK (ANTENNA)				JR605	1-216-864-11	METAL CHIP	0	5%	1/10W
< CONNECTOR >						JR606	1-216-864-11	METAL CHIP	0	5%	1/10W
CNP701	1-815-260-11	CONNECTOR, BOARD TO BOARD 30P				JR801	1-216-864-11	METAL CHIP	0	5%	1/10W
CNP801	1-794-311-21	PLUG, CONNECTOR 12P				JR802	1-216-864-11	METAL CHIP	0	5%	1/10W
CNP901	1-774-701-21	PIN, CONNECTOR 16P				JR804	1-216-864-11	METAL CHIP	0	5%	1/10W
< SURGE PROTECTOR >						JR805	1-216-864-11	METAL CHIP	0	5%	1/10W
CP601	1-803-902-21	PROTECTOR CHIP, SURGE				JR806	1-216-864-11	METAL CHIP	0	5%	1/10W
< DIODE >						JR808	1-216-864-11	METAL CHIP	0	5%	1/10W
D402	8-719-988-61	DIODE	1SS355TE-17			JR809	1-216-864-11	METAL CHIP	0	5%	1/10W
D444	8-719-988-61	DIODE	1SS355TE-17			JR810	1-216-295-11	SHORT CHIP	0		
D604	8-719-109-85	DIODE	RD5.1ES-B2			JR814	1-216-864-11	METAL CHIP	0	5%	1/10W
D802	8-719-978-33	DIODE	DTZ-TT11-6.8B			JR901	1-216-864-11	METAL CHIP	0	5%	1/10W
D803	8-719-109-97	DIODE	RD6.8ES-B2			< COIL >					
D804	8-719-978-33	DIODE	DTZ-TT11-6.8B			L601	1-410-508-11	INDUCTOR	8.2uH		
D805	8-719-978-33	DIODE	DTZ-TT11-6.8B			L603	1-412-006-31	INDUCTOR	10uH		
D806	8-719-109-97	DIODE	RD6.8ES-B2			L604	1-410-750-41	INDUCTOR	0.47uH		
D807	8-719-109-97	DIODE	RD6.8ES-B2			L669	1-424-759-21	COIL (AM ANT)			
D808	8-719-109-97	DIODE	RD6.8ES-B2			L701	1-410-513-11	INDUCTOR	22uH		
D809	8-719-921-63	DIODE	MTZJ-7.5B			L702	1-410-513-11	INDUCTOR	22uH		
D813	8-719-109-97	DIODE	RD6.8ES-B2			L901	1-419-476-31	COIL, CHOKE	250uH		
D901	8-719-049-38	DIODE	1N5404TU			< JACK >					
D903	8-719-109-97	DIODE	RD6.8ES-B2			PJ401	1-774-698-11	JACK, PIN 2P (AUDIO OUT)			
D907	8-719-110-49	DIODE	RD18ES-B2			< TRANSISTOR >					
D908	8-719-921-63	DIODE	MTZJ-7.5B			Q101	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
D909	8-719-109-97	DIODE	RD6.8ES-B2			Q102	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
D911	8-719-109-89	DIODE	RD5.6ES-B2								

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q201	8-729-920-21	TRANSISTOR	DTC314TK-T-146			R604	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q202	8-729-920-21	TRANSISTOR	DTC314TK-T-146			R605	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q401	8-729-055-92	TRANSISTOR	SRA2203SF			R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q402	8-729-055-96	TRANSISTOR	SRC1203SF			R607	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q603	8-729-030-51	TRANSISTOR	2SA1515S-R-TP			R608	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q604	8-729-055-96	TRANSISTOR	SRC1203SF			R609	1-216-809-11	METAL CHIP	100	5%	1/10W
Q605	8-729-030-51	TRANSISTOR	2SA1515S-R-TP			R610	1-216-809-11	METAL CHIP	100	5%	1/10W
Q606	8-729-055-96	TRANSISTOR	SRC1203SF			R611	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
Q833	8-729-049-40	TRANSISTOR	2SC5343SFG			R612	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q834	8-729-055-96	TRANSISTOR	SRC1203SF			R613	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q902	8-729-049-40	TRANSISTOR	2SC5343SFG			R614	1-249-409-11	CARBON	220	5%	1/4W
Q903	8-729-055-96	TRANSISTOR	SRC1203SF			R615	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q904	8-729-055-96	TRANSISTOR	SRC1203SF			R616	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q905	8-729-055-96	TRANSISTOR	SRC1203SF			R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q906	8-729-055-92	TRANSISTOR	SRA2203SF			R618	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q907	8-729-021-82	TRANSISTOR	2SD2396K			R619	1-216-817-11	METAL CHIP	470	5%	1/10W
Q909	8-729-055-96	TRANSISTOR	SRC1203SF			R620	1-216-817-11	METAL CHIP	470	5%	1/10W
Q910	8-729-920-85	TRANSISTOR	2SD1664-QR			R622	1-216-817-11	METAL CHIP	470	5%	1/10W
Q911	8-729-055-96	TRANSISTOR	SRC1203SF			R628	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q912	8-729-055-92	TRANSISTOR	SRA2203SF			R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q913	8-729-019-00	TRANSISTOR	2SD2394-G			R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q914	8-729-055-96	TRANSISTOR	SRC1203SF			R706	1-216-813-11	METAL CHIP	220	5%	1/10W
Q915	8-729-049-43	TRANSISTOR	STB1132Y			R707	1-216-849-11	METAL CHIP	220K	5%	1/10W
Q916	8-729-049-43	TRANSISTOR	STB1132Y			R708	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q917	8-729-820-46	TRANSISTOR	2SB1202FAS			R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q918	8-729-055-92	TRANSISTOR	SRA2203SF			R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q919	8-729-920-85	TRANSISTOR	2SD1664-QR			R711	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q920	8-729-920-85	TRANSISTOR	2SD1664-QR			R712	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q921	8-729-055-96	TRANSISTOR	SRC1203SF			R714	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q929	8-729-055-96	TRANSISTOR	SRC1203SF			R716	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
< RESISTOR >						R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W	R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W	R803	1-216-849-11	METAL CHIP	220K	5%	1/10W
R105	1-249-429-11	CARBON	10K	5%	1/4W	R806	1-249-417-11	CARBON	1K	5%	1/4W
R106	1-249-429-11	CARBON	10K	5%	1/4W	R807	1-216-849-11	METAL CHIP	220K	5%	1/10W
R107	1-216-841-11	METAL CHIP	47K	5%	1/10W	R809	1-216-849-11	METAL CHIP	220K	5%	1/10W
R108	1-216-841-11	METAL CHIP	47K	5%	1/10W	R810	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-216-809-11	METAL CHIP	100	5%	1/10W	R811	1-249-417-11	CARBON	1K	5%	1/4W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W	R812	1-249-417-11	CARBON	1K	5%	1/4W
R111	1-218-882-11	METAL CHIP	30K	0.5%	1/10W	R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-845-11	METAL CHIP	100K	5%	1/10W	R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R115	1-216-833-11	METAL CHIP	10K	5%	1/10W	R817	1-216-849-11	METAL CHIP	220K	5%	1/10W
R116	1-216-833-11	METAL CHIP	10K	5%	1/10W	R818	1-216-845-11	METAL CHIP	100K	5%	1/10W
R205	1-249-429-11	CARBON	10K	5%	1/4W	R819	1-216-849-11	METAL CHIP	220K	5%	1/10W
R206	1-249-429-11	CARBON	10K	5%	1/4W	R821	1-249-433-11	CARBON	22K	5%	1/4W
R207	1-216-841-11	METAL CHIP	47K	5%	1/10W	R822	1-216-849-11	METAL CHIP	220K	5%	1/10W
R208	1-216-841-11	METAL CHIP	47K	5%	1/10W	R823	1-249-417-11	CARBON	1K	5%	1/4W
R209	1-216-809-11	METAL CHIP	100	5%	1/10W	R824	1-216-849-11	METAL CHIP	220K	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W	R832	1-216-849-11	METAL CHIP	220K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W	R833	1-216-849-11	METAL CHIP	220K	5%	1/10W
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W	R835	1-216-836-11	METAL CHIP	18K	5%	1/10W
R407	1-249-437-11	CARBON	47K	5%	1/4W	R836	1-249-425-11	CARBON	4.7K	5%	1/4W
R408	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R842	1-216-821-11	METAL CHIP	1K	5%	1/10W
R410	1-216-805-11	METAL CHIP	47	5%	1/10W	R847	1-216-809-11	METAL CHIP	100	5%	1/10W
R601	1-249-417-11	CARBON	1K	5%	1/4W	R850	1-216-845-11	METAL CHIP	100K	5%	1/10W
R602	1-216-821-11	METAL CHIP	1K	5%	1/10W	R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R603	1-249-407-11	CARBON	150	5%	1/4W	R856	1-249-409-11	CARBON	220	5%	1/4W
						R857	1-249-409-11	CARBON	220	5%	1/4W

MAIN

SERVO

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R860	1-216-813-11	METAL CHIP	220	5%	1/10W	C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R901	1-249-425-11	CARBON	4.7K	5%	1/4W	C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R906	1-249-425-11	CARBON	4.7K	5%	1/4W	C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W	C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
R908	1-216-841-11	METAL CHIP	47K	5%	1/10W	C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
R909	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
R913	1-249-417-11	CARBON	1K	5%	1/4W	C14	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
R914	1-216-821-11	METAL CHIP	1K	5%	1/10W	C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R916	1-249-413-11	CARBON	470	5%	1/4W	C16	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R917	1-249-409-11	CARBON	220	5%	1/4W	C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W	C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
R919	1-249-421-11	CARBON	2.2K	5%	1/4W	C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R920	1-216-849-11	METAL CHIP	220K	5%	1/10W	C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R922	1-208-806-11	RES-CHIP	10K	0.5%	1/10W	C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R923	1-208-806-11	RES-CHIP	10K	0.5%	1/10W	C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R924	1-249-404-00	CARBON	82	5%	1/4W	C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R925	1-249-404-00	CARBON	82	5%	1/4W	C24	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R926	1-249-404-00	CARBON	82	5%	1/4W	C25	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R927	1-249-404-00	CARBON	82	5%	1/4W	C26	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
R928	1-249-404-00	CARBON	82	5%	1/4W	C27	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R929	1-249-404-00	CARBON	82	5%	1/4W	C29	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R930	1-216-845-11	METAL CHIP	100K	5%	1/10W	C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R931	1-249-421-11	CARBON	2.2K	5%	1/4W	C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R932	1-249-421-11	CARBON	2.2K	5%	1/4W	C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R933	1-216-821-11	METAL CHIP	1K	5%	1/10W	C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R934	1-216-041-00	METAL CHIP	470	5%	1/10W	C37	1-126-393-11	ELECT CHIP	33uF	20%	10V
R935	1-249-395-11	CARBON	15	5%	1/4W	C38	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R936	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	C40	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R937	1-216-041-00	METAL CHIP	470	5%	1/10W	C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R951	1-216-821-11	METAL CHIP	1K	5%	1/10W	C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
R952	1-216-809-11	METAL CHIP	100	5%	1/10W	C44	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
R953	1-216-809-11	METAL CHIP	100	5%	1/10W	C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
< SWITCH >						< CONNECTOR >					
SW802	1-762-638-21	SWITCH, TACTILE (RESET)				CN1	1-815-352-11	CONNECTOR, BOARD TO BOARD 30P			
< THERMISTOR >						CN3	1-816-275-21	CONNECTOR, FFC/FPC 6P			
< JUMPER RESISTOR >											
TH901	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510				FB1	1-216-864-11	METAL CHIP	0	5%	1/10W
< TUNER >						< IC >					
TU601	A-3220-835-A	TUNER UNIT (TUX-010)				IC1	8-759-699-98	IC uPD63711GC-8EU			
< VIBRATOR >						IC2	8-759-658-87	IC BA5810FP-E2			
X601	1-781-246-21	VIBRATOR, CRYSTAL (10.25MHz)				< TRANSISTOR >					
X801	1-795-259-11	VIBRATOR, CERAMIC (8.38MHz)									
X802	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)				Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			

< RESISTOR >											
A-3283-233-A	SERVO BOARD, COMPLETE					R3	1-216-797-11	METAL CHIP	10	5%	1/10W
*****						R5	1-218-344-11	METAL CHIP	7.5K	5%	1/10W
1-683-284-11	PICK-UP FLEXIBLE BOARD					R7	1-216-839-11	METAL CHIP	33K	5%	1/10W
< CAPACITOR >						R8	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R9	1-216-840-11	METAL CHIP	39K	5%	1/10W
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R10	1-216-835-11	METAL CHIP	15K	5%	1/10W
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V	R12	1-216-837-11	METAL CHIP	22K	5%	1/10W
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R14	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R15	1-216-841-11	METAL CHIP	47K	5%	1/10W

CDX-L410X

- SERVO
- SL SW
- SPEAKER

Ref. No.	Part No.	Description	Remark		
R17	1-216-809-11	METAL CHIP	100	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-216-809-11	METAL CHIP	100	5%	1/10W
R20	1-216-809-11	METAL CHIP	100	5%	1/10W
R21	1-216-821-11	METAL CHIP	1K	5%	1/10W
R22	1-216-821-11	METAL CHIP	1K	5%	1/10W
R26	1-216-797-11	METAL CHIP	10	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W

< VIBRATOR >

X1	1-795-520-11	VIBRATOR, CERAMIC (16.9344MHz)	*****		
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1-683-282-11	SL SW BOARD	*****
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< SWITCH >

SW4	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)	*****		
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A-3274-647-A	SPEAKER BOARD, COMPLETE (supplied with MAIN BOARD, COMPLETE)				

MISCELLANEOUS

3	1-776-206-21	CORD (WITH CONNECTOR) (POWER)			
201	X-3378-480-1	CHASSIS (OP) ASSY (including M901)			
207	1-823-641-11	CABLE, FLEXIBLE FLAT (6 CORE)			
⚠ 210	8-820-165-06	OPTICAL PICK-UP KSS-721A/C-RP			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			

M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)			
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	*****		

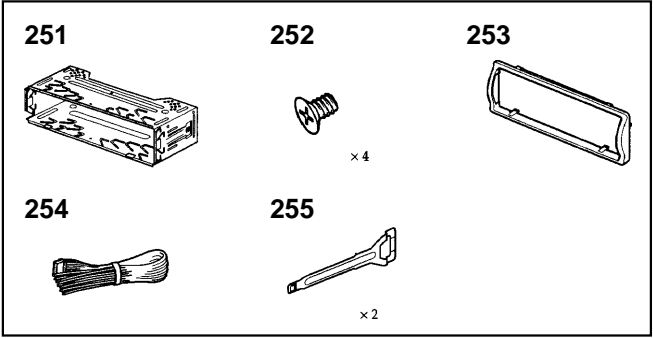
ACCESSORIES

3-247-731-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH)				
3-247-732-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH)				

X-3378-390-3	CASE ASSY (for FRONT PANEL)				

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS			

251	X-3382-647-1	FRAME ASSY, FITTING	
252	3-934-325-01	SCREW (+K 5X8 TP)	
253	3-246-009-01	COLLAR	
254	1-776-206-21	CORD (WITH CONNECTOR) (POWER)	
255	3-246-471-01	KEY (FRAME)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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CDX-L410X

SONY

*US Model
Canadian Model*

SERVICE MANUAL

Ver 1.1 2003. 06

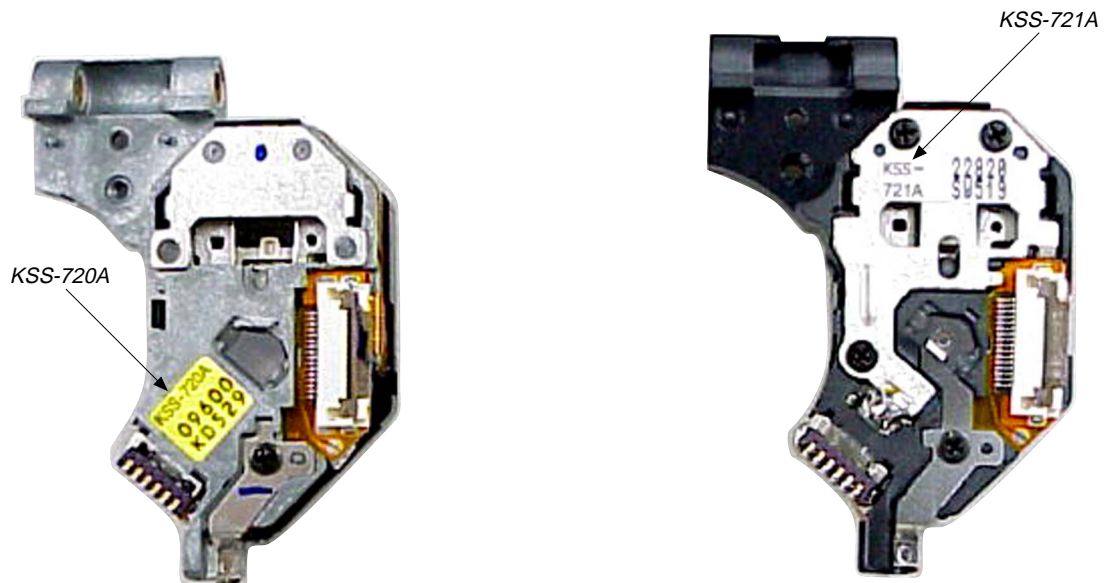
SUPPLEMENT-1

File this supplement with the service manual.

Subject : Change of optical pick-up block

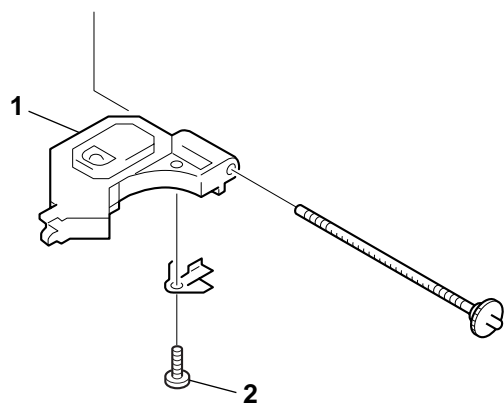
The optical pick-up block have been changed in the process of production.
Confirm an optical pick-up block pattern name when you exchange optical pick-up block.

Discrimination



CDX-L410X

Parts List



Ref. No.	Part No.	Description	Remark
△ 1	8-820-103-11	OPTICAL PICK-UP KSS-720A/C-RP	
△ 1	8-820-165-06	OPTICAL PICK-UP KSS-721A/C-RP	
2	7-627-553-37	PRECISION SCREW +P 2X3 TYPE3	(for KSS-720A)
2	3-909-607-01	SCREW (for KSS-721A)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

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